Furniture News

National News Magazine for
FURNITURE, BEDDING and
UPHOLSTERING INDUSTRIES

1957

NAFM SUPPLY, EQUIPMENT AND FABRIC FAIR ISSUE

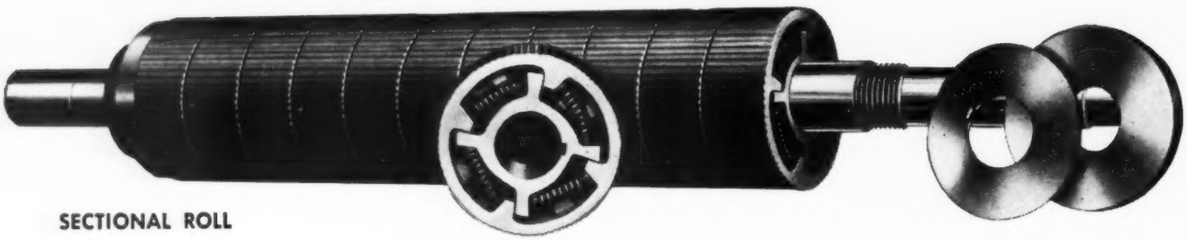
PUBLISHED AT AMERICAN FURNITURE MART
666 LAKE SHORE DRIVE, CHICAGO II, ILLINOIS

For years and years of Extra Service BUSS CABINET SURFACERS

NOW *ARE FURNISHED WITH* HARD CHROME-PLATED SECTIONAL ROLLS AND SECTIONAL CHIPBREAKERS

SECTIONAL CHIPBREAKER

. . . AS WELL AS CHROME-PLATED PRESSURE BARS, CENTER TABLES AND LOWER CYLINDER TABLES.



SECTIONAL ROLL

Among the dozens of features that make BUSS by far the best buy in cabinet surfacers is the many extra years of trouble-free service built into them. Typical of this is the hard chrome plating of sectional rolls and sectional chipbreakers (now standard) in addition to chrome plated center tables, pressure bars and lower cylinder tables. Now, all of the working contact surfaces that take the brunt of wear have a protective plating which, next to diamonds, is the hardest thing in the world. That means many, many years of extra service, extra returns on your investment. And when it comes to production there's nothing surpasses a BUSS. Don't by any means buy a planer without first getting the complete facts on BUSS. Write for bulletins or consult us on your requirements.

6 MODELS
40 SIZES

THERE'S A BUSS PLANER TO EXACTLY SUIT YOUR NEEDS

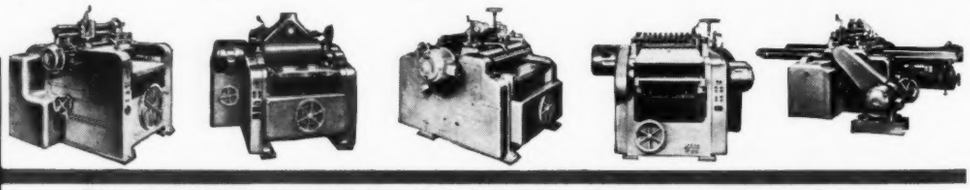
No. 4-L Single Surface, medium sized planer for first cutting and finishing work.

No. 44 Single Surface, 4 roll planer for first cutting and finishing work. **No. 66** — 6 roll.

No. 88 Double Surface, 8 roll planer for first cutting and finishing work.

No. 55 Heavy duty Double Surfacer for planing rough lumber.

MICRO-SURFACER for planing hardwood and other very thin materials.



BUSS
SINCE 1862
MACHINE WORKS

PLANER SPECIALISTS EXCLUSIVELY

230 EIGHTH STREET • HOLLAND, MICHIGAN

PRODUCTION UP 100%

THIS COULD BE YOUR STORY!

COSTS DOWN 40%

with new FAY & EGAN No. 969–20" x 8" four-side Planer, Matcher and Moulder

" . . . we were using four separate machines to process our church seats. One machine was used to rough plane the stock, a shaper for nosing the front edge, a jointer for beveling the back edge and an outmoded matcher for scooping the contour of the seat. The new machine we purchased from you does all four of these operations at the same time.

"We are now turning out twice as many pieces per day and have also cut production costs by more than 40%."

Roy P. Stonesifer

Superintendent, LEIRD Manufacturing Co.

Write today for complete information and prices!

J. A. FAY & EGAN

2027 Eastern Avenue • Cincinnati 2, Ohio

MARKING YOUR SHIPPING ORDERS . . . "UNCRATED"

SAVES BIG MONEY

SHIP UNCRATED *Via* PADDED VANS OF North American Van Lines, Inc. CRESTON DIVISION

NEW FURNITURE, HOME FURNISHINGS, STORE AND OFFICE EQUIPMENT

Whether you are a manufacturer, dealer or user . . . you can cut unnecessary cost!

HOW NORTH AMERICAN CRESTON DIVISION DOES IT

UNCRATED new merchandise is loaded directly into clean, padded vans and transported to your destination when specified. Careful handling is assured because Creston Division is 100% liable for safe delivery of your merchandise. Get the FACTS. Write for folder and case histories . . .

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SAVE . . . crating labor
SAVE . . . crate weight
SAVE . . . excess handling
SAVE . . . local drayage
SAVE . . . uncrating labor
SAVE . . . excess space
SAVE . . . crate disposal
SAVE . . . time

North American Van Lines, Inc., CRESTON DIV., DEPT. G, Ft. Wayne, Ind.

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CITY _____ STATE _____

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Advertising Deadline October 15

Reservations are Acceptable Now

Furniture News

National News Magazine for FURNITURE, BEDDING and UPHOLSTERING INDUSTRIES
A Cosgrove Publication

Published monthly at American Furniture Mart, 666 Lake Shore Drive, Chicago 11. PHONE SUperior 7-4100, TELETYPE CG2583. Established 1929. Volume 29, Number 6.

Circulation this issue over 10,000 copies. Controlled distribution to executives in furniture, bedding and upholstering industries with management, production, purchasing, sales and design responsibilities.

Accepted as CONTROLLED CIRCULATION PUBLICATION at Grand Rapids, Michigan. Send Form 3579 to FURNITURE NEWS, 666 Lake Shore Drive, Chicago 11, Illinois. Postage Guaranteed.

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(No toll charge on Enterprise & Zenith calls)

"Micrometer-perfect" door parts produced 4-at-a-pass by Mattison Moulders

AT ROLSCREEN COMPANY

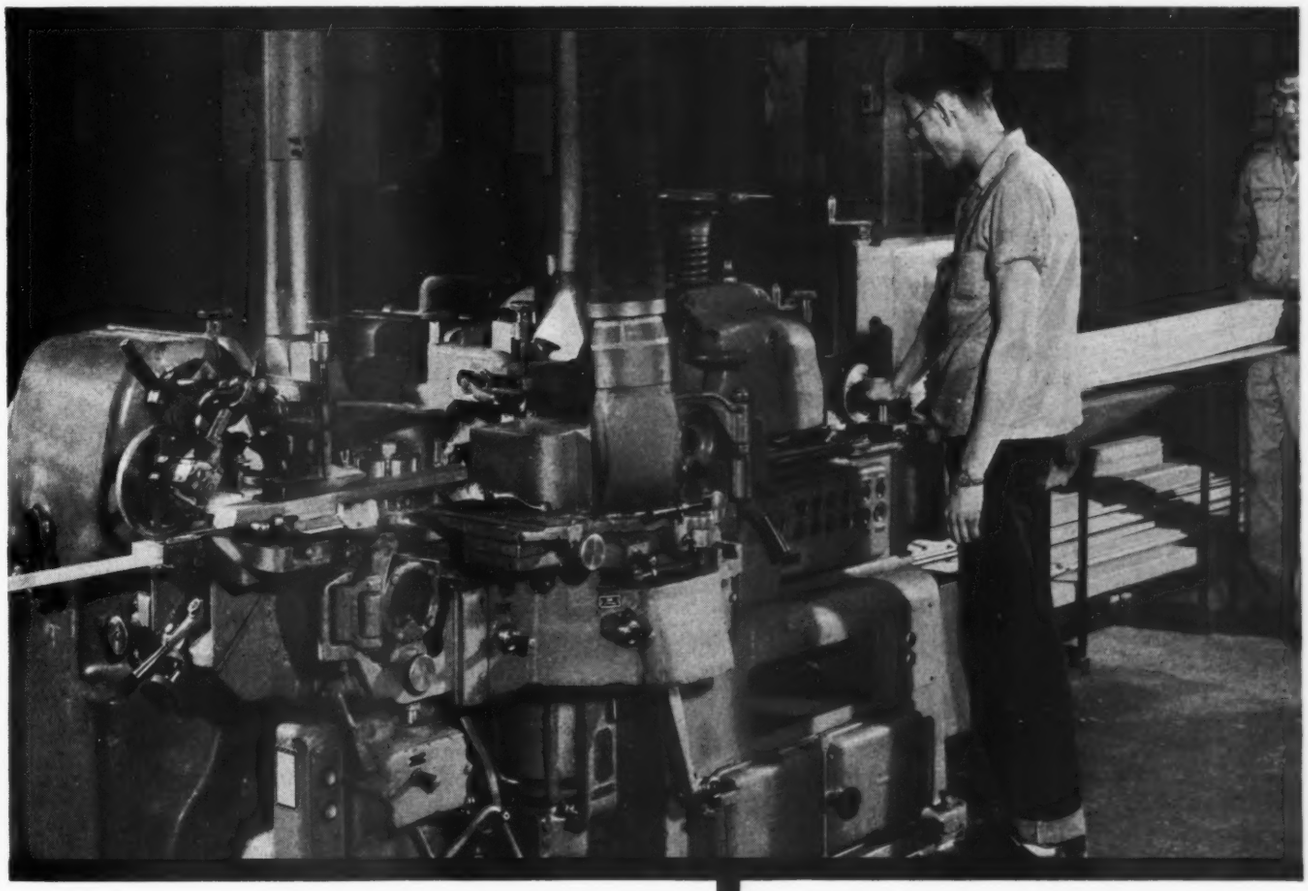
The outstanding success of Rolscreen Company, Pella, Iowa, was the subject of a major article in a national woodworking magazine recently. "We have standardized on the Mattison No. 276 Moulder because the rigid, close-coupled design helps us hold tolerances we gauge with micrometers and dial indicators," says H. S. Kuyper of Rolscreen. The company's popular "Pella" prefabricated windows and wood folding doors require precision manufacture, yet high-speed production.

"One of a number of operations for which we use these soundly designed machines is the manufacture of multiple small mouldings—formed cutters are used to make several mouldings from one piece of material in a single pass through the machine. Production is increased corresponding to the multiple number of pieces obtained per cut."

Another profit-building advantage important in the Rolscreen plant, which covers a city square and operates around the clock, is the low downtime record of their numerous Mattison machines.

"Maintenance is very low, and when we need parts, your service department makes fast stock shipments in most cases," says Mr. Kuyper.

The experience of successful companies like Rolscreen suggests a practical next step in building your own products' success story: call your Mattison dealer *today* and discuss ways to improve production methods, using standard Mattison woodworking machines!



Mattison Machine Works, Rockford, Illinois

Gentlemen: Please send bulletin on Model 276 Moulder ☐ and information on Model 231 Pedestal Grinder (shown at top of ad) ☐.

Name_____

Firm_____

Address_____

City_____ Zone____ State_____

MATTISON MACHINE WORKS ROCKFORD ILL. U.S.A.

MATTISON

WOODWORKING MACHINERY

"Built better . . . to produce better quality"

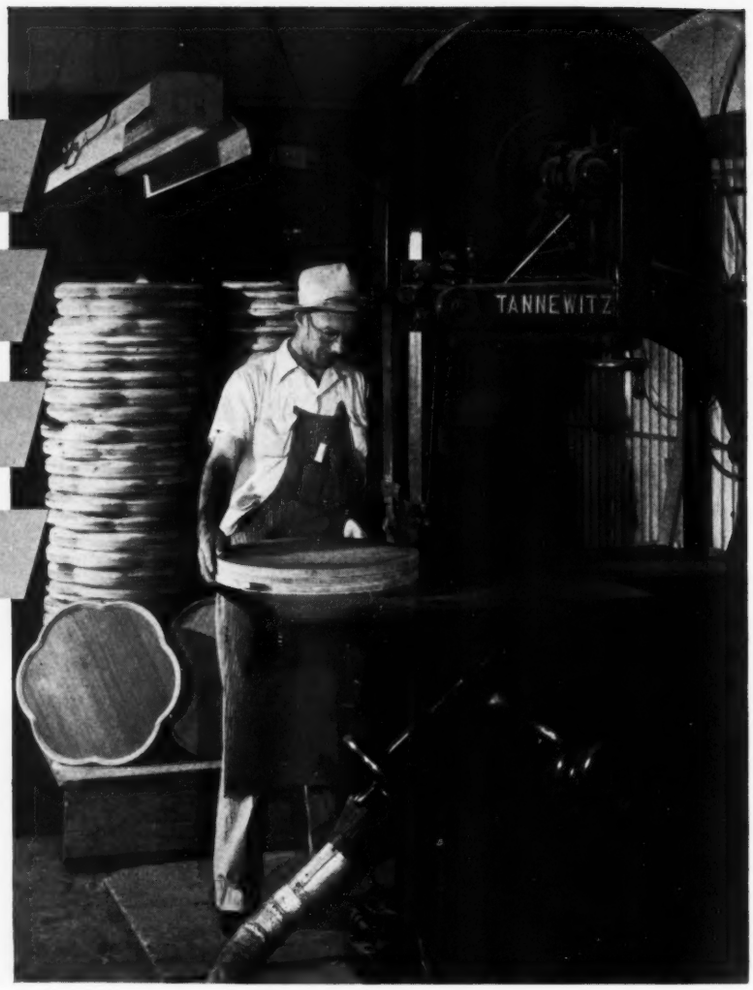
for

Smoother

Cleaner

Faster

Cutting



AND A LIFETIME OF TROUBLE-FREE SERVICE

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TANNEWITZ

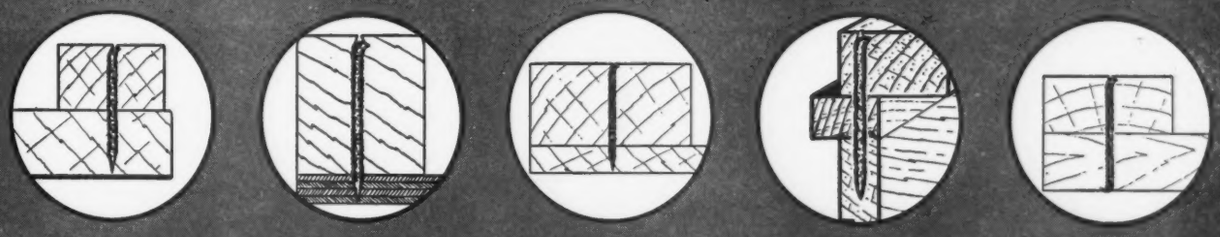
HIGH SPEED BAND SAWS

The absolute precision with which these machines are built allows them to deliver over 12,000 feet of saw-blade travel per minute entirely without vibration. That means smoother, cleaner cuts requiring less cleanup; faster cuts, for at this speed the blade slides thru stock 12" or more thick as easy as butter. Traditional Tannewitz quality — the highest in the industry — and numerous patented features assure maximum convenience of operation and minimum maintenance. They're the best by any test — by far the cheapest in the long run. Write for "Band Saw Bulletins" and judge for yourself.

BUILT BY SAWING MACHINERY SPECIALISTS ☎ GL 6-1729

THE TANNEWITZ WORKS, Grand Rapids, Mich.

WHATEVER DIMENSIONS YOU FASTEN . . .



UP TO 2¾" NAIL LENGTH . . .

AUTO-NAILERS

ARE THE GIANT STEP TOWARD

AUTOMATION!

They speed production because they automatically drive as many as 3 nails a second, under full control of operator: brad, clinch, or plain — as desired. Versatile, they do 101 woodworking jobs, with practically no set-up time. They can be remote-controlled. Multiple installations can be singly or gang-controlled.

Hurricane Drive prevents splitting . . . no bent-nail correction delays. Controlled penetration; accurate automatic countersink.

The greenest operator cannot damage material; no half moons, no hammer bruises. No operator injuries, no flying nails. 8 AM accuracy at quitting time.

For the first time the auto industry's mass production methods can be applied to high quality woodworking.

If you want an impartial engineering survey of what Auto-Nailers can do for your production and profit, write for full information. No obligation.

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WORKING RANGE OF AUTO-NAILERS

	NAILS		WORK AREA	
MODEL	Length	Gage	Height	Depth
Crusader—2	¼ to 1"	18-19-20	9¾"	2¾"
Mercury—3	¼ to 1¼"	17-18-19	9¾"	2¾"
Spartan—4	¼ to 1½"	15-16-18	35"	12½"
Trojan—5	¼ to 1¾"	15-16-17	14½"	8½"
Hercules—9	½ to 2¾"	13-15	32½"	15½"

AUTO-NAILER

AUTO-NAILER CO., 269 Marietta St., N.W., Atlanta 13, Georgia

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267 Marietta St., N.W.
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Please send me free information about Auto-Nailers.

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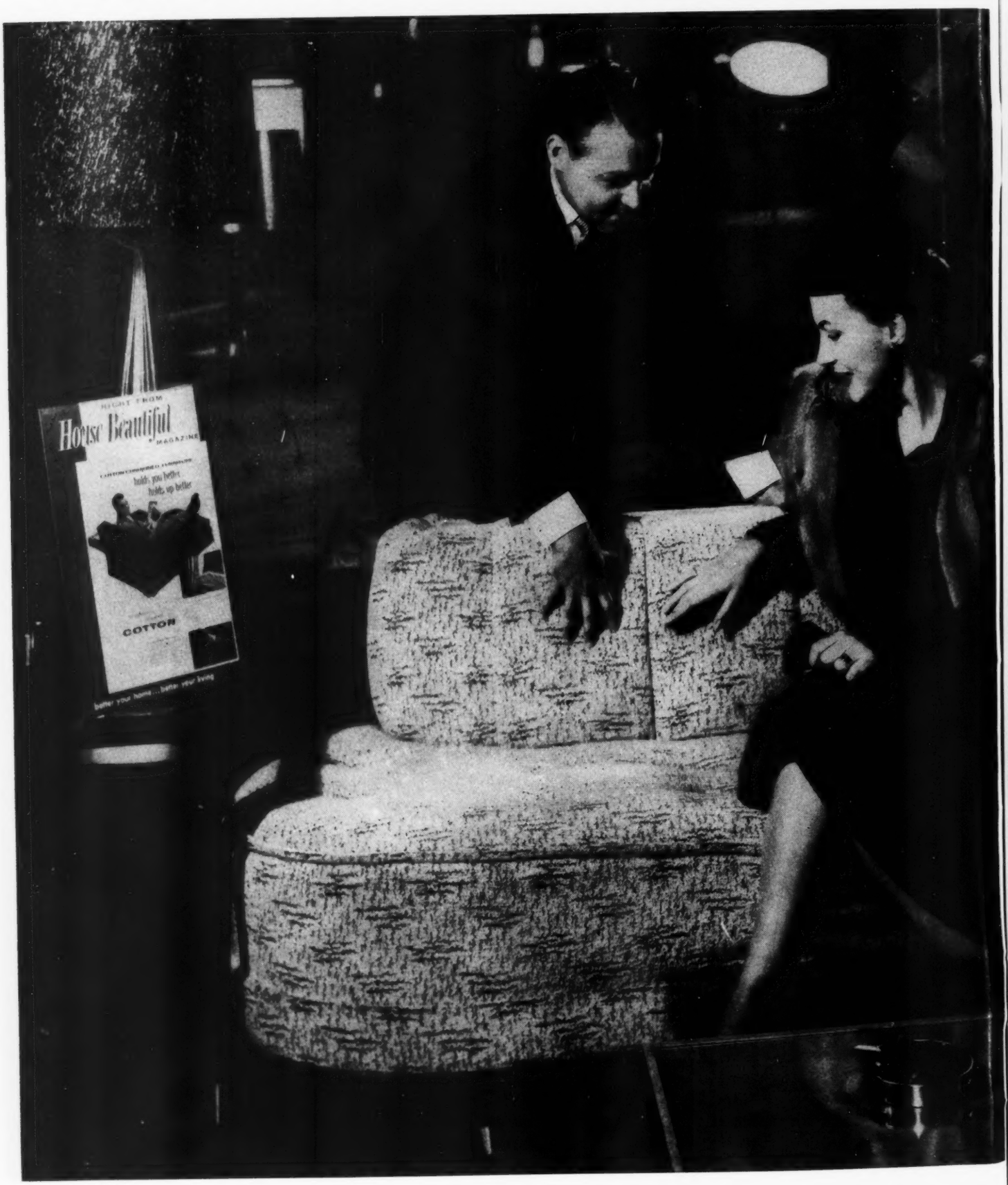
My Name_____ Title_____

COTTON CUSHIONING takes the



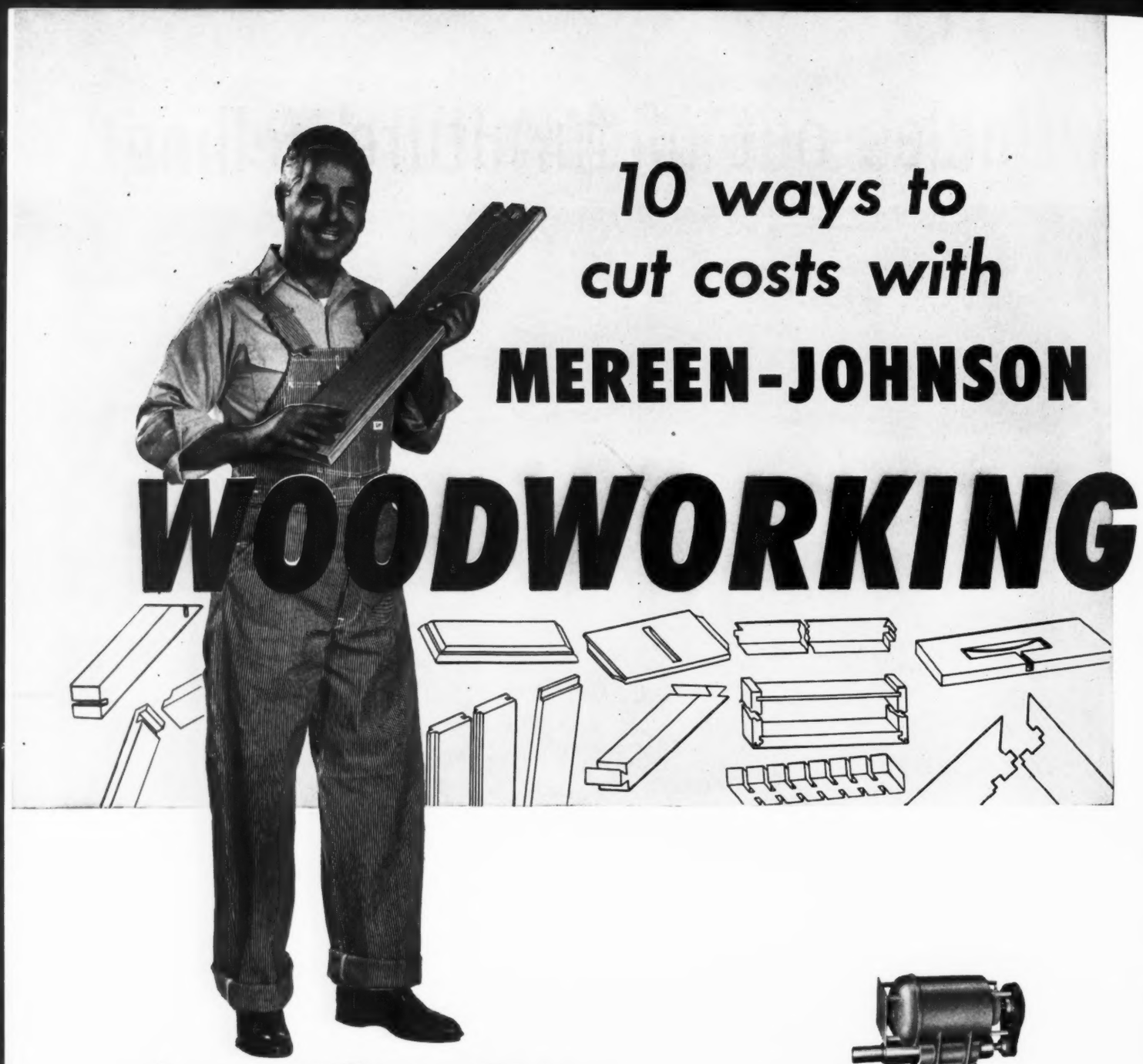
wrinkles out of furniture selling

Smooth, wrinkle-free upholstered furniture results from a smart inside job by cotton cushioning. Cotton meshes with upholstery fabrics and holds them firm . . . prevents irregular edges and unsightly wrinkles. Cotton-cushioned furniture keeps its new look longer and keeps your customers better satisfied. You'll build volume by offering customers the best values . . . and in furniture that means COTTON cushioning.

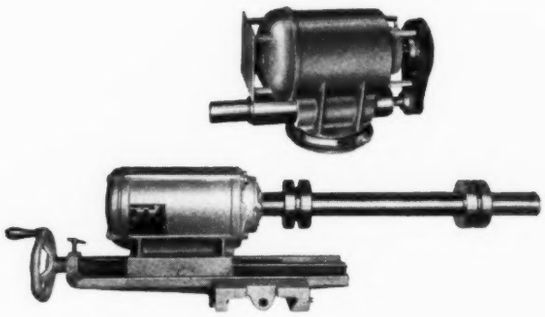
It's smart to sell **COTTON** cushioned furniture

Advertised in national magazines

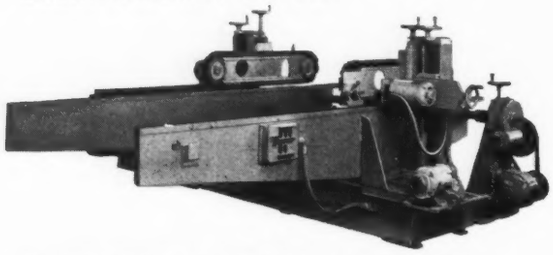
National Cotton Batting Institute and National Cotton Council, Memphis, Tenn.



No. 442-MT COMBINATION SAW—A versatile machine for ripping, cross-cutting, grooving, dadoing, beveling and mitering. Cuts up to 48″ wide and rips up to 50″ wide. Handles large stock easily. *Described in Bulletin No. 442-MT.*

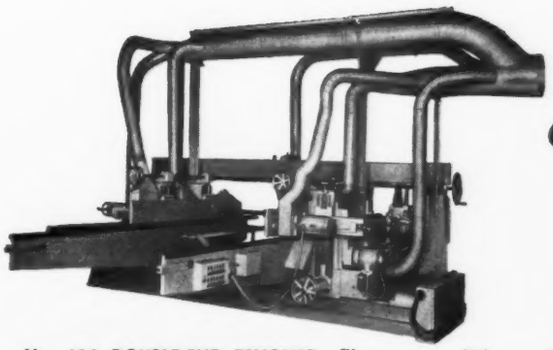


SAW MOTORS—Motors for special applications 3600 RPM or patented offset high speed spindle as illustrated. Unusual shaft extensions open or TEFC 1 to 25 HP. Also mounting slides, etc.

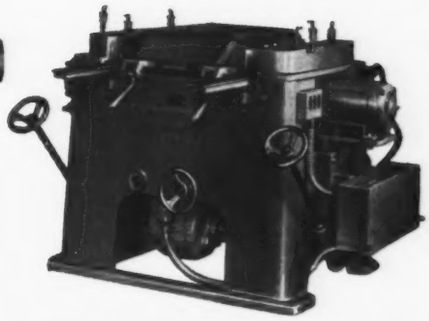


No. 600 DOUBLE CUT-OFF SAW—Accurate production at high rates of feed. Labor saving attachments such as cope motors, dado arbors and other equipment are available for specific needs. Larger sizes available. *Described in Bulletin No. 600.*

No. 477 CUT-OFF SAW—Capacity equals two or three swing, straight line or roller carriage cut-off saws—depending on type and condition of stock used. An excellent machine for box work. *Described in Bulletin No. 477.*

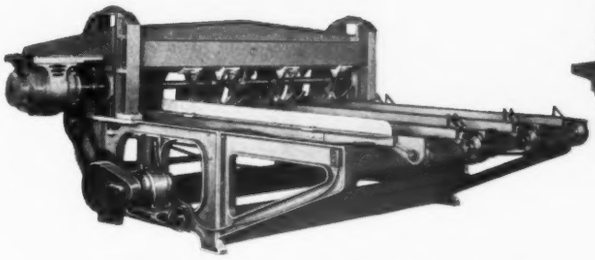


No. 400 DOUBLE-END TENONER—Sizes up to 20′ to fit your requirements. Will square-cut up to 96″ ahead of trim saws. Numerous accessories to multiply its usefulness. *Described in Bulletin No. 400.*

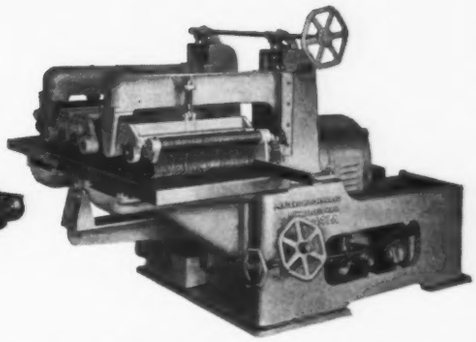


No. 326 MATCHER-JOINTER—For sash and door, furniture and box factories—as well as for many special uses. Adaptable for jointing hogshead staves. Unequalled for "T" and "G" work. *Described in Bulletin 326.*

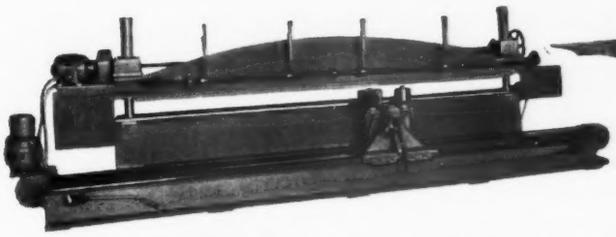
MACHINES



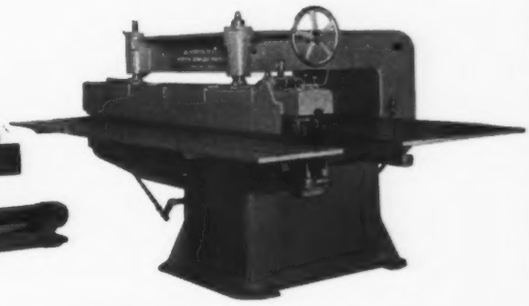
No. 435-H MULTIPLE CUT-OFF SAW — Cuts long boards into short pieces . . . will square cut large size sheets . . . and will cut any number of grooves. Excellent for sizing plywood. *Described in Bulletin No. 435-H.*



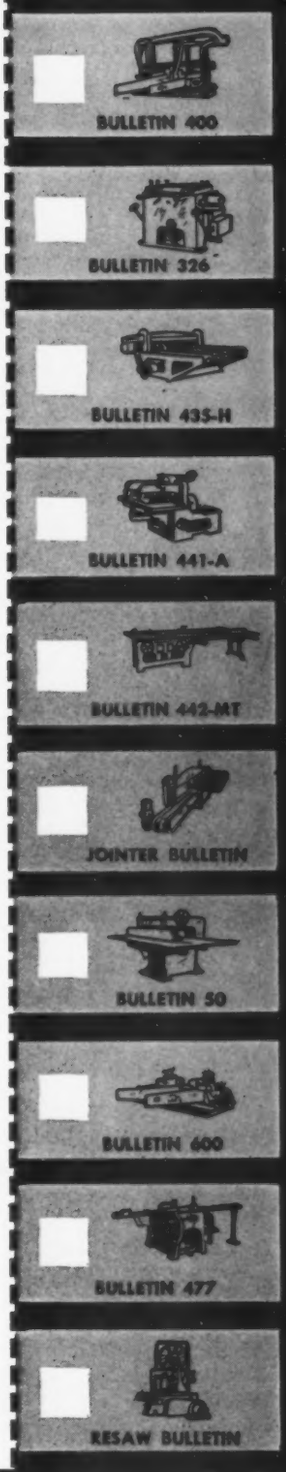
No. 441-A GANG RIP SAW—For fast production on difficult gang ripping jobs. Eight power driven feed rolls...12″, 19″, or 24″ saw space. Up to 150 HP. Variable feed drive up to 300 ft. per minute. Glue joint accuracy. *Described in Bulletin No. 441-A.*



VENEER JOINTER—Traveling head principle eliminates shifting. Perfectly joints bundles of veneer up to four inches thick. Sizes from 90″ to 212″. *Described in Jointer Bulletin.*



VENEER SPLICER—Makes precision tapeless joints. Adjusts automatically for varying thickness of veneer normally fed through machine. Welded steel frame with 49″ throat clearance at right. *Described in Bulletin No. 50.*



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Mereen-Johnson MACHINE CO.

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City_____ State_____

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Look what's happened to Hardboard

Weyerhaeuser 4-Square Industrial Hardboards now made in 4 types for wide range of needs

WHETHER the furniture you're making is modern or traditional, functional or decorative, designed for indoor or outdoor use, you can now find in the Weyerhaeuser family of Hardboards exactly the type of board required to meet your needs.

Looking for a board with outstanding resistance to impact and abrasion plus the ability to resist moisture and to take plenty of abuse? Investigate Tempered Weytex*, newest member of the Weyerhaeuser Hardboard line. Searching for a board that's light in color, easy to finish, and that has excellent bending and forming characteristics? Check up on Standard Weytex*, made in thicknesses from 1/12" to 1/4". Want a Perforated Board that's extremely clean-cut, attractive and easy to machine? Ask about 4-Square Perforated Board, either Tempered or Standard. Is lower cost a factor in your product? Use Weylite*, a lower density board.

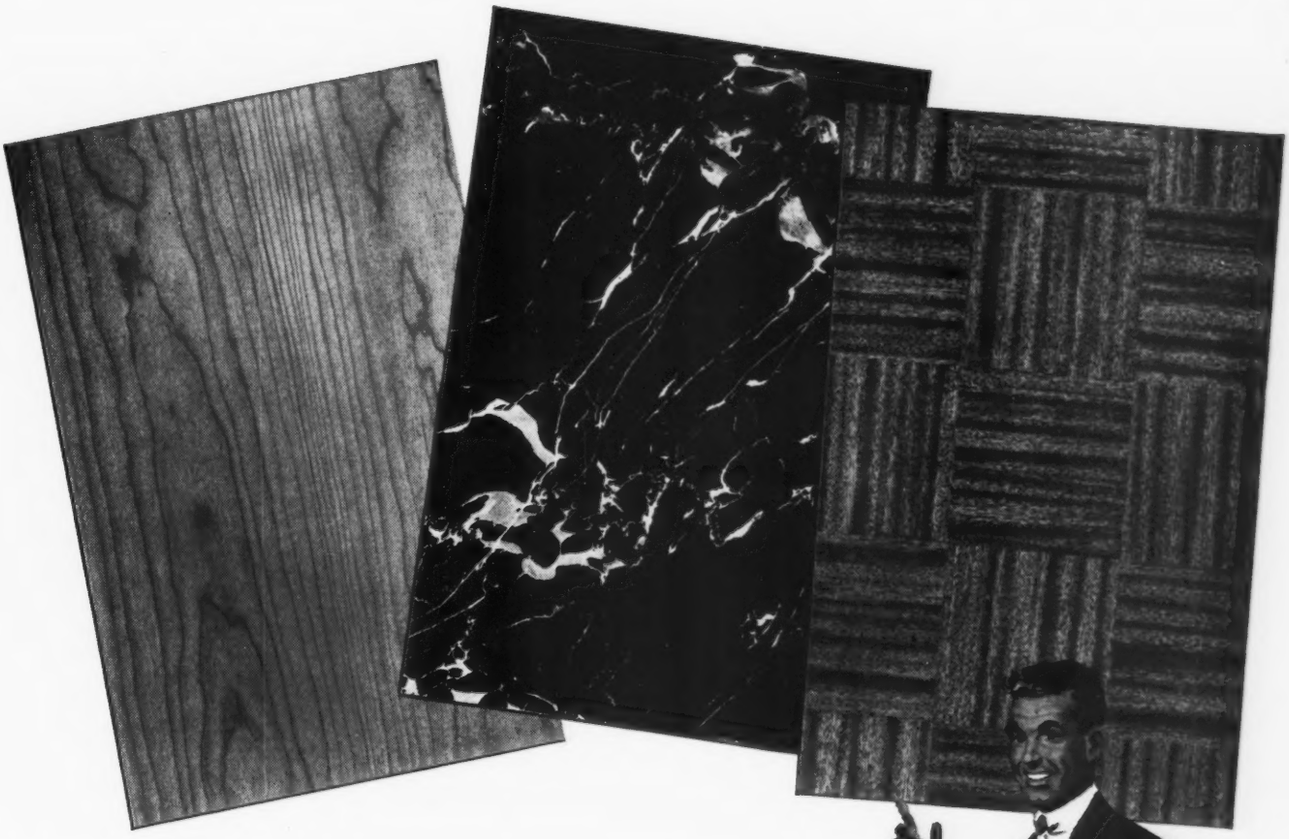
Yes, whatever your needs in Hardboard may be, look to Weyerhaeuser as a dependable source of supply. Your request for technical information and samples will be handled promptly.

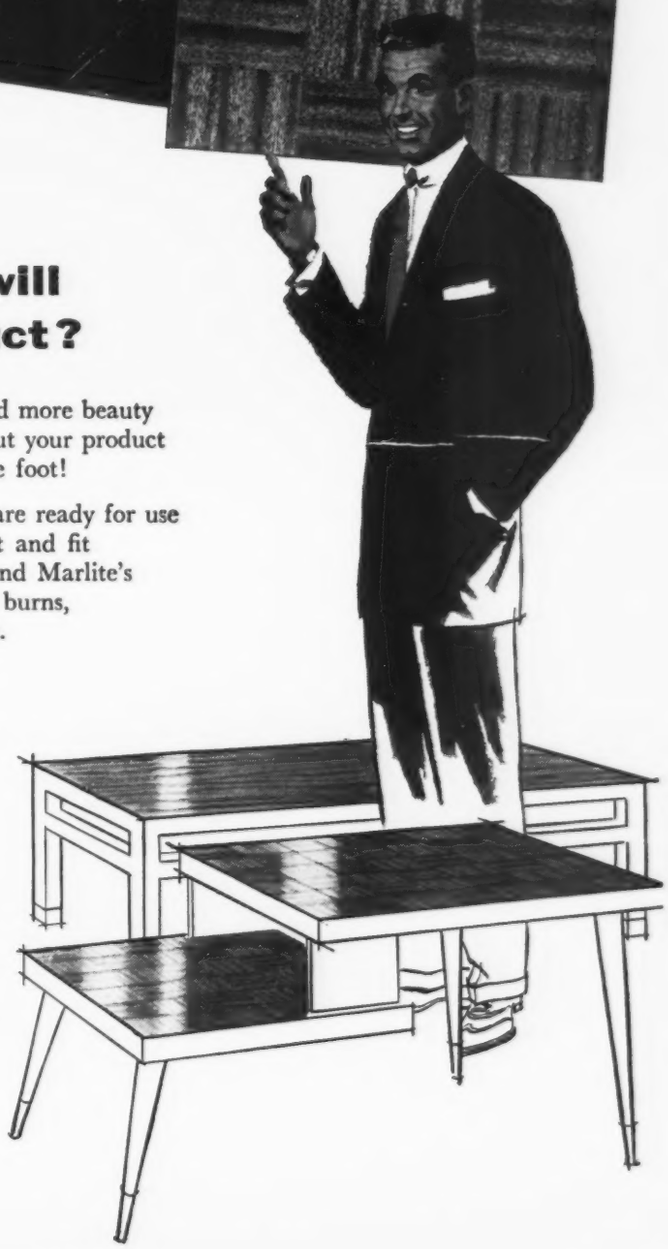
*T.M. Reg.

Weyerhaeuser offers Particle Board, too, as a core for veneers and decorative plastics. Send for descriptive literature.

Weyerhaeuser Sales Company
DEPARTMENT HH-87
First National Bank Building • St. Paul 1, Minnesota

- **Tempered Weytex** is smooth on one side, has a screen impression on the other side. Panels are light brown in color. Thicknesses: 1/10", 1/8", 3/16", 1/4".
- **Standard Weytex** is smooth on one side and has a screen impression on the other. Panels are light tan in color with a pleasing fiber pattern. Thicknesses: 1/12", 1/10", 1/8", 3/16", 1/4".
- **Weylite** is smooth on one side with a screen impression on the other. Slightly lower in density than Standard Weytex. Made in two thicknesses: 3/16", 1/4".
- **Perforated Board** available in Tempered or Standard, is smooth on one side with a screen impression on the other. Perforated with 1" centers in both directions and ½" margins on edge and ends. Thicknesses: 1/8" and 3/16" with perforations 3/16" in diameter. Also 1/4" thickness with perforations 9/32" in diameter.
- **4-Square Hardboards** take all types of finishes including wiping stains, lacquers, air-dried and baked-on enamel. An ideal base for plastics, fabrics, veneers. Excellent gluing, laminating characteristics.





Which Marlite pattern will look best on your product?

Any one of the distinctive Marlite patterns will add more beauty and sales appeal. And, better still, every one will cut your product costs . . . provide initial savings up to 4¢ a square foot!

Marlite panels save time and material, too. They are ready for use without further preparation or finishing. They cut and fit like wood . . . yet won't splinter, split or crack. And Marlite's soilproof melamine plastic surface resists cigarette burns, stains, alcohol . . . wipes clean with a damp cloth.

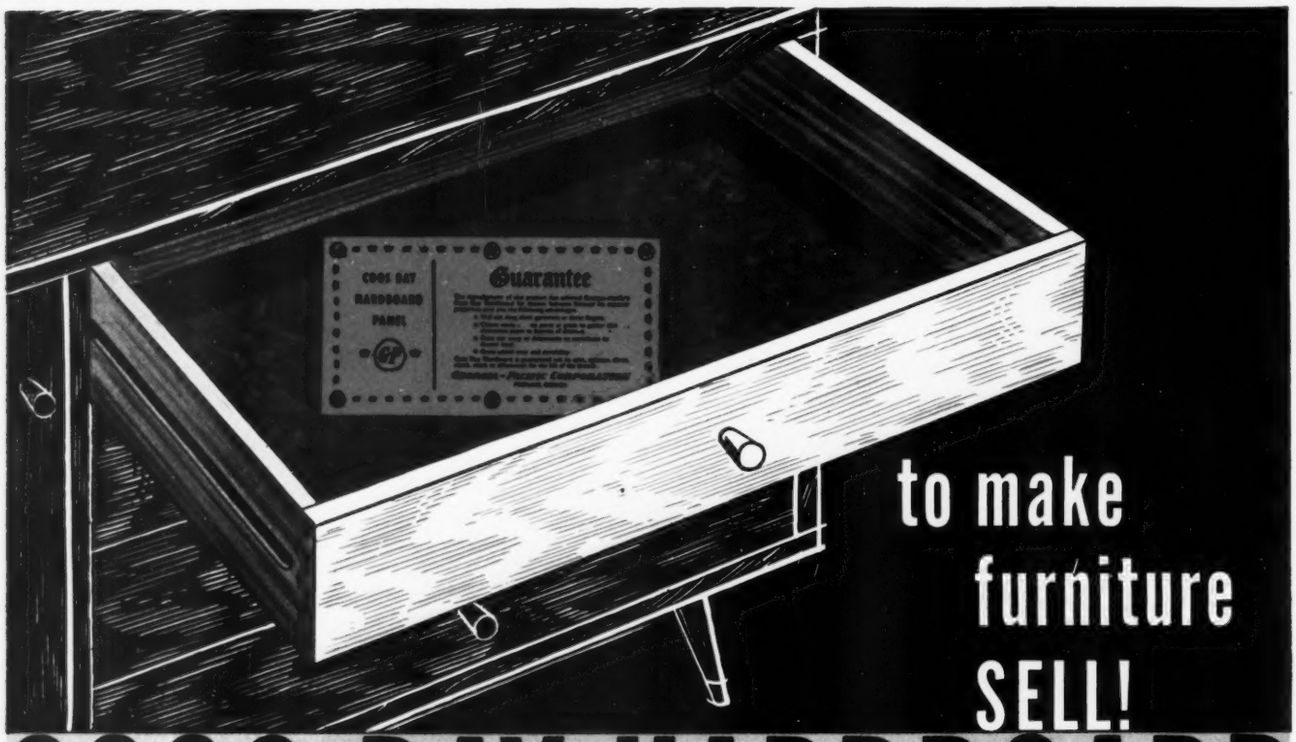
You can easily see the profitable sales possibilities of the many beautiful Marlite patterns.
For complete information on how Marlite can cut production time, cost and space, write Marlite Division of Masonite Corporation, Dept. 712 Dover, Ohio.

Marlite®
PLASTIC SURFACES

Guaranteed by Good Housekeeping

MARLITE IS ANOTHER QUALITY PRODUCT OF MASONITE® RESEARCH

GUARANTEED TOP DRAWER



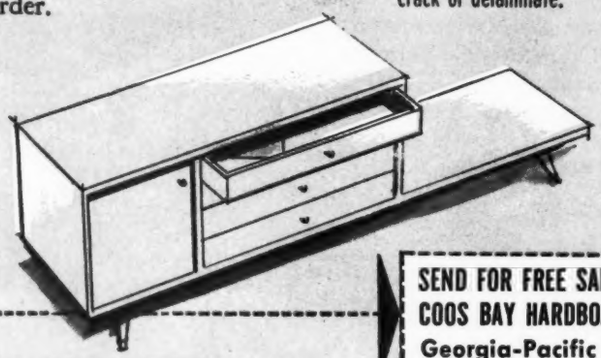
to make
furniture
SELL!

COOS BAY HARDBOARD

Take a look at "hidden values" wise buyers look for in chests, desks, cabinets and other pieces . . . and you'll make sure drawer bottoms, dust panels, case backs and end panels are genuine Coos Bay Hardboard. Another outstanding new application is drawer sides and backs. The Coos Bay Guarantee is added proof you take pride in your product . . . gives salesmen real talking points later. Free supply of Guarantees, as shown, included with each Coos Bay Hardboard order.

- Smooth on both sides. Light, natural color. Exceptional machining qualities.
- Smooth cuts. Easy on tools. Tough damage-resistant edges.
- Excellent screw-holding strength. Hard abrasion-resistant surfaces.
- Good paintability and gluability. Guaranteed not to split, splinter, crack or delaminate.

Coos Bay Hardboard is outstanding as a base for veneers, plastics, finishes; excellent for mirror backs.



DIVISION OF

GEORGIA—PACIFIC
CORPORATION

SEND FOR FREE SAMPLES OF COOS BAY HARDBOARD AND GUARANTEE

Georgia-Pacific Corporation
Dept. FN857, Equitable Bldg., Portland 4, Oregon

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Firm_____
Address_____
City_____ Zone____ State____

WASHINGTON

FURNITURE NEWSGRAM

EXCLUSIVE REPORT FOR YOU BY DAN ADAMS

Sponsors of fiber content labeling legislation are brimming with confidence, predicting that a strong labeling bill seems sure to get through the House this year. They are less certain about the Senate, but here too they claim strong support, including such influential members as Sen. Warren Magnuson (D., Wash.), chairman of the committee on interstate commerce, Sen. John Stennis (D., Miss.), Sen. "Mike" Monroney (D., Okla.,), and Sen. Joseph C. O'Mahoney (D., Wyo.).

When the labeling bills were before the House committee on interstate commerce last April, furniture industry witnesses warned they would cause needless expense without giving really useful information to consumers. But the testimony apparently failed to register, and the committee is scheduled to report out the labeling bill soon after it completes work on the Natural Gas bill.

Common congressional reaction to the furniture industry testimony goes like this: "Sure it would be wonderful if labels based on performance standards could be used. But no one ever seems to agree on performance standards. Meanwhile the fiber disclosure law would give the consumer something helpful to go by."

Congressional sources also discount the argument that compulsory labeling will be a severe burden on furniture manufacturers. They say most manufacturers already use factory routing slips containing most of the same facts covered by the proposed labeling laws.

Shipping costs keep spiraling upwards. Aside from the seemingly endless series of hikes in basic freight rates, Interstate Commerce Commission will soon act on less dramatic rate increase applications which add to transportation headaches. One such application deals with insurance fees. It would authorize carriers to charge 10c extra for each $100 of value on shipments valued in excess of $3.00 per pound.

In addition the Commission is considering requests for another increase in rates for all "less-than-carload" business. The original application came from railroad. But freight forwarders were quick to jump on the bandwagon. They told ICC they would like to get the same percentage increase for their services that is granted to other carriers.

Don't be fooled by statistics. Economists who talk about the big expansion enjoyed by the U.S. economy since World War II are

WASHINGTON

(Continued from previous page)

likely to refer to a durable goods boom. "More people have more money to spend than ever before. And they are spending more of their money for durables than they normally did in the past."

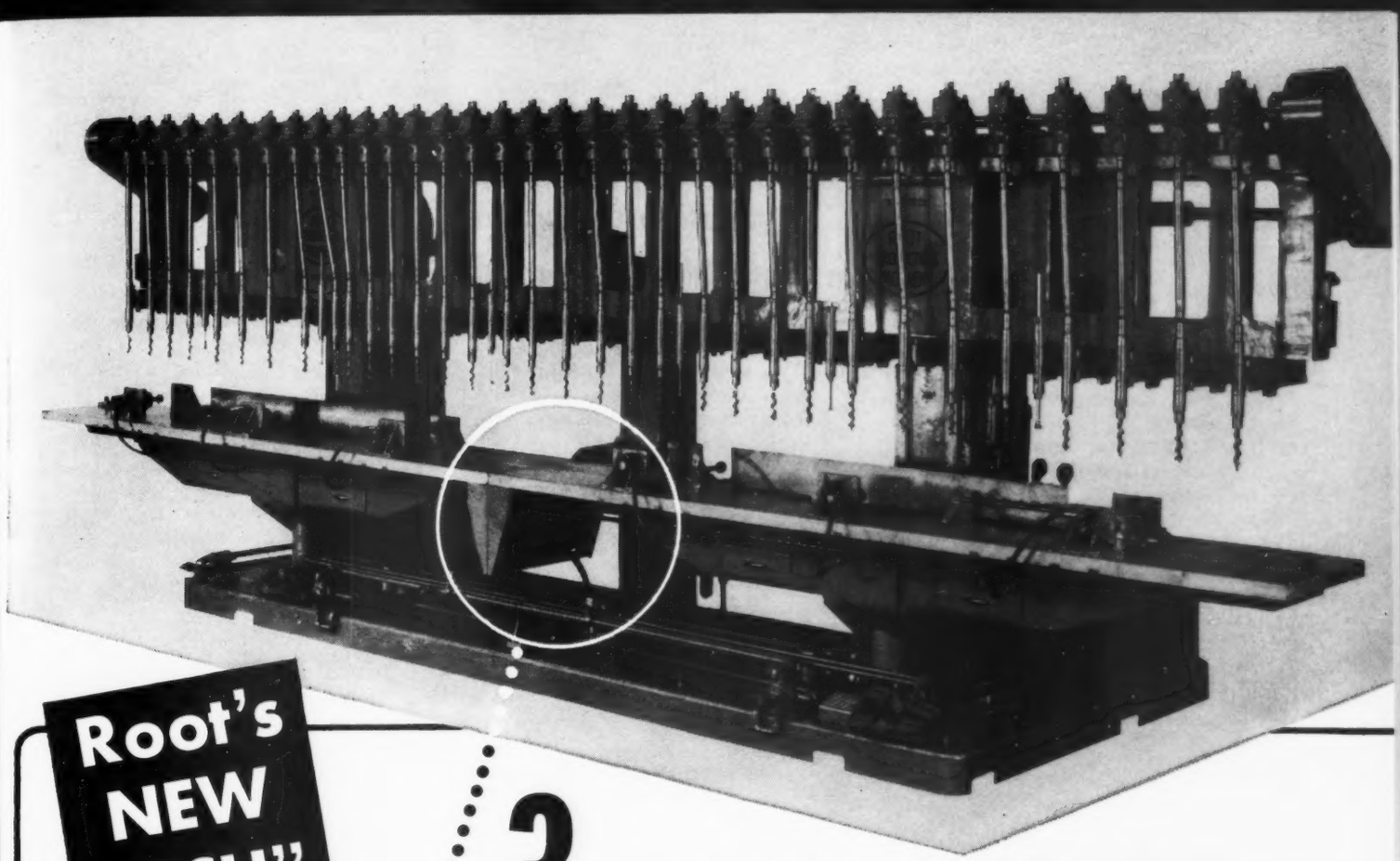
As a general rule, those are unchallengable statements. But recent Commerce Department studies show that some durables industries have succeeded in grabbing more than their share, while others lag behind. There has been particularly strong demand for passenger cars, tires, tubes and accessories, household and kitchen appliances, and radio and TV sets. Jewelry and watches account for about the same share of the consumer durables market as in 1929. On the other hand, says the Department of Commerce, furniture and durable household furnishings are getting a smaller share than in 1929, despite the high rate of residential construction.

Business outlook seems good for the rest of 1957, and early 1958, says the Joint Economic Committee of Congress, although the crystal ball is clouded in a few spots. Like most of official Washington, the committee is convinced that there is still a serious inflation danger, so it is against tax cuts now, and it thinks businessmen ought to be exceptionally careful about decisions to raise prices. Just to be on the safe side, however, the committee acknowledges that there are a number of soft spots. A downturn in activity would call for a relaxation of the tight money policy, or even a quick income tax cut to bolster buying power of lower and middle income families.

One major step to pep up consumer durables industries has cleared Congress already. That's a bill seeking to help the home building industry by slashing the minimum down payment required to buy with an FHA insured loan. Where existing law required a minimum of 5% down on the lowest priced house, it will now be possible for buyers to get into new homes by paying 3% down on the first $10,000; 15% on the next $6,000 and 30% on all above that. Home builders nod in approval. They believe the new terms are sufficiently liberal so that the building industry will have hundreds of thousands of new prospects soon.

For a typical anti-trust case involving exclusive dealership franchises, take a look at the case filed by Attorney General Brownell against the Necchi Sewing Machine organization. It sells about $30,000,000 of machines through more than 40 distributors, who in turn sell them to more than 2,300 dealers. Major issue raised by the government is a provision of the dealership contracts preventing distributors and dealers from selling outside their assigned territories, or to non-franchised dealers, or at prices other than those determined by Necchi. Another provision prevents Necchi outlets from handling competing brands.

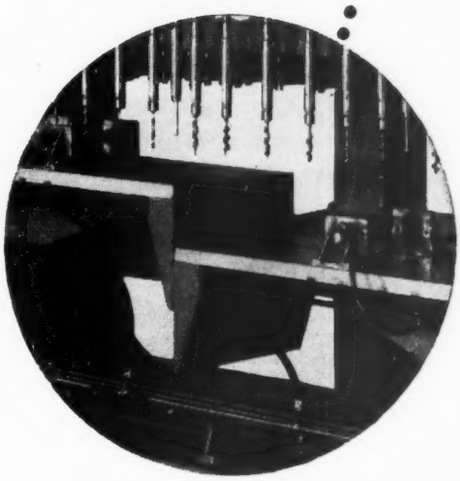
Assistant Attorney General Victor Hansen, head of the anti-trust division, wants all these clauses knocked out. He says the effort of Necchi to impose restrictions on distribution of products once the ownership passes into the hands of distributors and retailers "is contrary to our national policy of free competition."



Root's NEW "CCH" MULTIPLE BORER

3 machines in ONE . . .

answers production problem of boring stock having wide variances in length



21'-4¼" CAPACITY BORER ALSO SERVES AS TWO 10' CAPACITY MACHINES

Note how the table of this new "CCH" Multiple Borer may be divided. This is accomplished by disengaging a special clutch mounted on the table equalizing shaft and adjusting several hydraulic valves. The changeover is made in a few minutes.

This large and unique multiple boring machine was designed to handle, on a low-cost basis, the boring of boards and members used in building railroad refrigeration cars, the unusual requirements being that some of the members measure approximately 20' in length and others less than half that length.

To handle all-length stock efficiently, Root engineers designed and built this new "CCH" Multiple Borer with a divided table which, in effect, is 3 machines in one. With the table operating as a single unit, all feeds, controls and drives work as one large machine for boring the long stock. Then through use of special clutch and valve mechanisms, the large machine becomes two smaller independent multiple borers for handling the short stock.

The machine has 33 spindles driven by two 15 HP, 1800 RPM ball bearing motors. Spindles are universally adjustable for in-line or out-of-line boring over a maximum area of 21'—4¼" in length by 12" cross-line. Other outstanding features include hydraulic feed, special controls, special safety devices, and micromatic adjustment of table stroke for accurate depth boring.

Complete information on this and other Root wood boring machines is available on request—no obligation.

B. M. ROOT CO.

YORK — PENNA.

PROGRAM FOR CONVENTION

National Association of Furniture Manufacturers at Chicago Aug. 25–28

MONDAY, AUGUST 26th

9:15 – **"Forecasting Furniture's Future"** – John P. Lewis, Professor of Business Administration, Indiana University.

10:15 – **"What Motivates Consumers to Buy?"** – Frederic H. Rahr, President, Customer Preference Clinics, Inc.

11:00 – **"The New Concept of Marketing"** – Nathan S. Ancell, President, T. Baumritter Company.

12:00 – Luncheon. **"Human Engineering in Business"** – Victor Short, President, Institute of Human Science.

6:30 – **"Get Acquainted"** Cocktail Party.

***TUESDAY, AUGUST 27th**

9:15 – **"Quality Control - An Industry Evaluation"** – National Retail Furniture Association; National Retail Dry Goods Association.

9:15 – 12:00 – The NAFM Upholsterers Session on Fabric Testing and Performance.

10:00 – **"New Trends in Woods and Finishes"** – Burdett Green, Exec. Director, Fine Hardwoods Association.

10:45 – The Furniture Industry on Parade – NAFM.

12:00 – Luncheon. **"Quarterbacking the Management Team"** – Fred Smith, Fred Smith Associates.

6:30 – Banquet Reception.

7:00 – Banquet and entertainment. – **"Your Three Golden Keys"** – Millard Bennett.

WEDNESDAY, AUGUST 28th

9:15 – **"How to Build Dealer Acceptance"** – Leo Williams, Advertising Director, Home Furnishings Daily.

10:45 – **"What a Wholesaler can do for You"** – Richard E. Woodmansee, Vice President, Frank Lyon Co., Little Rock, Ark., and Shreveport, La.; President, National Wholesale Furniture Association.

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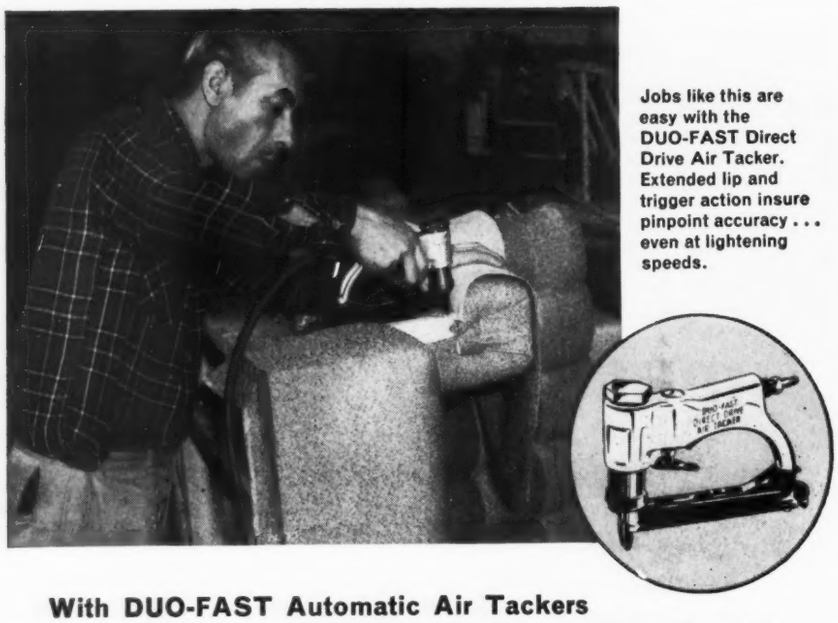
*NAFM Upholsterers Session on Fabric Testing and Performance will be run concurrently with other meetings scheduled for same morning.



Jobs like this are easy with the DUO-FAST Direct Drive Air Tacker. Extended lip and trigger action insure pinpoint accuracy . . . even at lightening speeds.

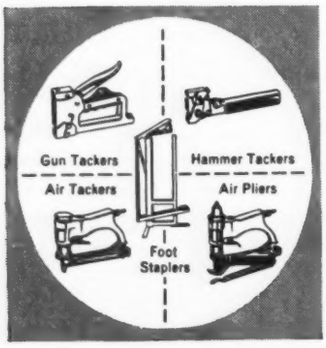
With DUO-FAST Automatic Air Tackers

...the skill is built-in!

Even inexperienced workers will do a better job faster with DUO-FAST Automatic Air Tackers. The speed and skill are built-in. One hand does it: you just flick the trigger . . . air does the rest. And the extended front lip gives you pinpoint accuracy—even at speeds of 3 staples a second!

Over 150 models. Air Tackers like this are just one part of the DUO-FAST Staple-tacking line. With over 150 models to draw from, your DUO-FAST man has exactly the stapling tool you need. And remember: All DUO-FAST Tackers carry a Free Service Guarantee.

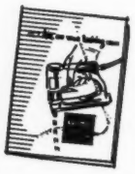
7183



Send for free folder:

To learn how DUO-FAST Stapling Tools can cut costs for you, send today for illustrated Bulletin FT-27.

Write *FASTENER CORPORATION, 850-54 Fletcher St., Chicago 14, Ill.*



DUO-FAST

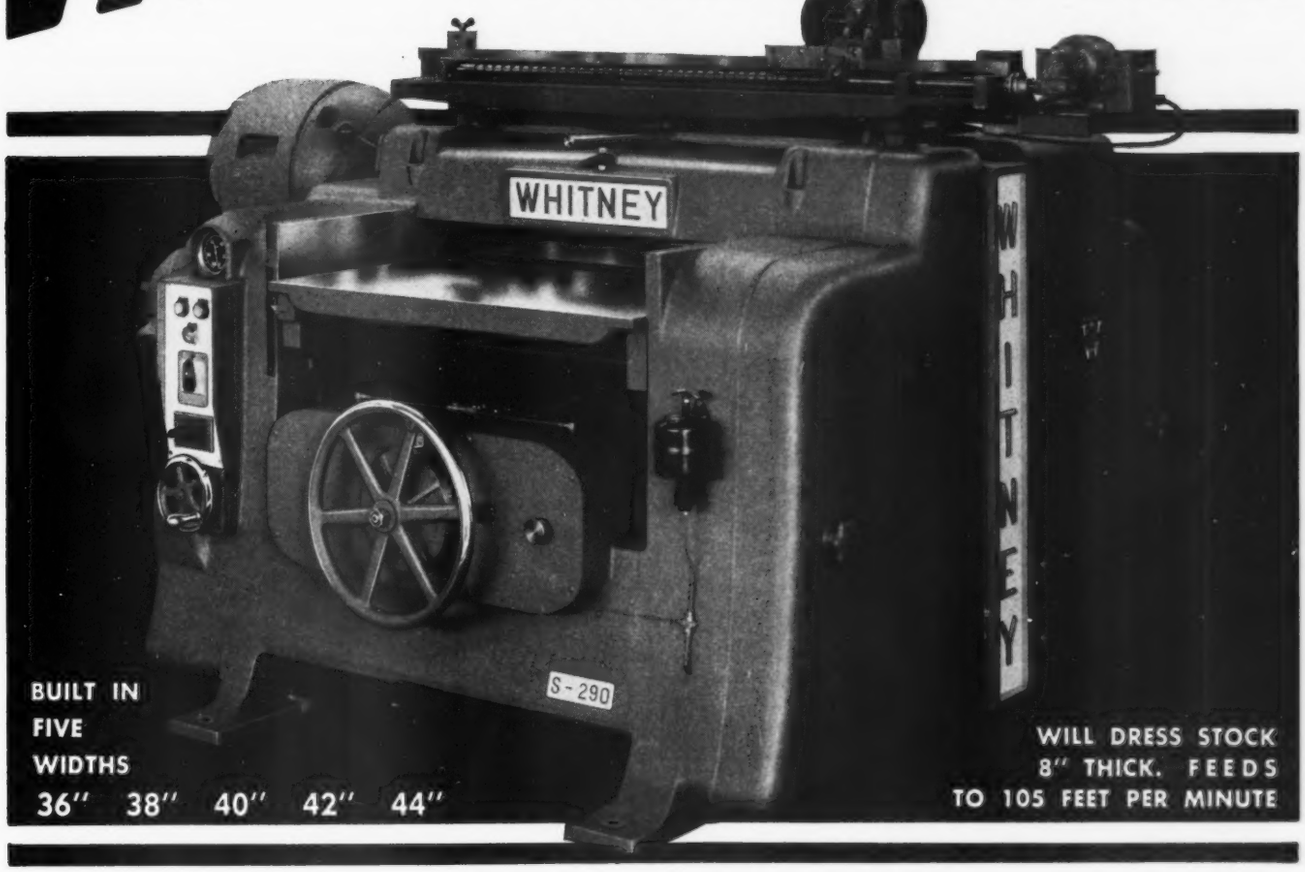
Staplers • Tackers • Staples

Announcing

The S-290

A NEW WHITNEY

QUALITY PRODUCTION SINGLE SURFACER



BUILT IN FIVE WIDTHS
36" 38" 40" 42" 44"

WILL DRESS STOCK 8" THICK. FEEDS TO 105 FEET PER MINUTE

This fine new Whitney Planer embodies the most modern features in Single Surfacers. It is built in five widths, 36", 38", 40", 42" and 44" and has 4-knife round cutterhead—will dress stock 8" thick and as short as 14" when not butted or 3" butted.—Available on this new machine are: Variable feed unit giving feeds to 105 feet per minute.—Flexible or sectional chipbreaker.— Centralized adjustments for lower feed rolls, top feed rolls and pressure bar.—Cutterhead brake.—Graduated dial handwheel for .001 inch bed setting.—One-shot lubrication.—Automatic knife grinder.—Over 100 years of experience, experiment, research, and plain down-to-earth "know-how" have gone into the Whitney products. Every feature which has been dictated by good usage in a production planer has been engineered and built into these modern Whitney Planers.

Write today for specifications, prices, and full information on any Whitney machine.

Baxter D. Whitney & Son, Inc.

WHITNEY
QUALITY PROGRESSIVENESS EXPERIENCE
EST. 1837

WINCHENDON MASSACHUSETTS U.S.A. GREENSBORO NORTH CAROLINA

FEATURED SPEAKERS

LEWIS

RAHR

John P. Lewis, professor of Business Administration, Indiana University, will talk on "Forecasting Furniture's Future," on Monday. He holds a Ph.D. in Economics from Harvard University and was a member of the Council of Economic Advisors to the President of the United States from 1950 to 1953 and an economic consultant to the United Nations Korean Reconstruction Agency which spent six months in Korea after the Korean War.

●

Frederic H. Rahr, president of the Rahr Color Clinic, will conduct a session on the subject "What Motivates Consumers to Buy?" on Monday. His companies have served a wide variety of manufacturing, publishing and retail clients in the consumer goods field, including market research of over a million customers' points of view in order to find out what can be done to meet their needs in product development, manufacture, promotion and retailing in order to insure leadership and profits.

ANCELL

SHORT

Nathan S. Ancell, president, Baumritter Corp., will talk on "The New Concept of Marketing" on Monday. Prior to joining Baumritter Corp. in 1932, he practiced law for two years following graduation from Columbia Law School in New York. He is a member of the NAFM board of directors, the Home Furnishings Industry Committee, board chairman of Viko Furniture Corp. and Beecher Falls Mfg. Corp., and has been New York Industries Chairman for the Red Cross, Boy Scouts and the National Foundation of Infantile Paralysis.

●

Victor L. Short, founder and president of the Institute of Human Science, Chicago, will be a featured speaker on Monday. He is nationally known in business educational circles as the first to bring the science of Human Engineering and the application of its principles to modern business and industrial management. Since 1934, when he founded the Institute of Human Science, he has trained thousands of people in Human Engineering through personally directed seminars sponsored by topflight corporations. His subject will be "Human Engineering in Business."

(Con't. on pg. 22)

Jointing plywood and laminated plastic at Chadwick Manufacturing Company . . .

CARBOLOY® SOLID CARBIDE KNIVES PAY FOR THEMSELVES IN 6 WEEKS

One set of Carboloy carbide knives on the jointer at left has been on the job almost a year without dulling. And Chadwick Manufacturing Co., Coleman, Wisc., estimates they will operate another 6 months before they need their first resharpening. These knives eliminated $10 a week in grinding costs, and paid off Chadwick's initial investment in less than 6 weeks.

Prior to carbides, steel knives cut only 1,000 lineal feet of plywood and laminated plastic surfacing before they began to chip. Equally important, rapid dulling of the knives made it impossible to maintain perfectly matched joints.

With Carboloy carbide knives, Chadwick estimates they will cut 150,000 feet before regrinding . . . get lower costs and perfect joints.

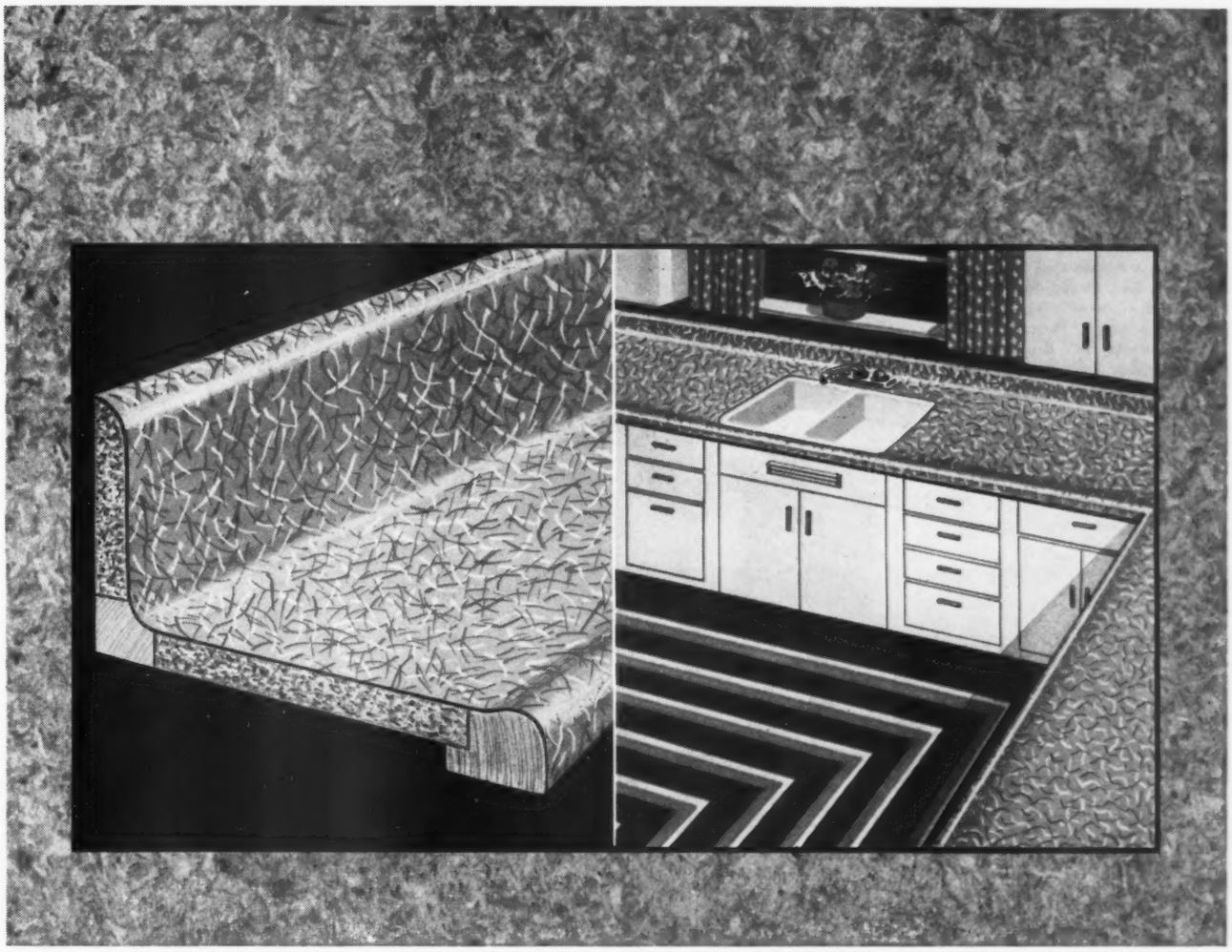
Carboloy carbide knives are available in sizes up to 40" for planers, molders, shapers, and other equipment. For technical information or the names of suppliers of Carboloy carbide knives, write: *Metallurgical Products Department of General Electric Company, 11129 E. 8 Mile Road, Detroit 32, Michigan.*

Carboloy carbide jointer knives eliminated $10 a week in grinding costs . . . paid for themselves in 6 weeks. Estimated production before resharpening is 150,000 lineal ft. compared with 1,000 ft. with steel knives.

Progress Is Our Most Important Product

GENERAL ELECTRIC

AN IDEAL BASE FOR BETTER PRODUCTS



WEYERHAEUSER 4-SQUARE PARTICLE BOARD–
simplifies the job of laminating, veneering

No KNOTS, no grain! Ready to use without sanding, drying, planing! Dimensional stability plus good bonding quality! Uniformity in density, thickness, smoothness! These are the characteristics that help make a better base for sink and counter tops and other products requiring a stable, easily worked core. Now you can get them in 4-Square Particle Board, the Weyerhaeuser-engineered core material for decorative laminated plastics and wood veneers.

4-Square Particle Board is produced in densities for both 3 and 5 ply laminations. Laminations may be mounted using either pressure or pressure sensitive adhesives. Sanded smooth on both sides and completely free of grain and knots, 4-Square Particle Board helps give you the smooth, attractive surface that means customer satisfaction, increased sales.

Consider the many places this improved core stock can bring extra savings and profit . . . in warp-resistant sliding doors; in beautifully finished dresser, table and dinette tops; in close fitting, well machined fixtures and parts. We think it will pay and pay well to investigate its use in your products. You may find it presents an immediate answer to current needs or problems. Thicknesses from 3/8" to 1". Densities from 30 to 50 lbs. per cubic foot.

Weyerhaeuser offers Hardboards, too . . . to meet a wide range of needs. Write for descriptive literature.

Weyerhaeuser Sales Company
DEPARTMENT PG-77
First National Bank Building • St. Paul 1, Minnesota

Write for sample

Check the smooth surface and uniform texture that help insure better manufacturing results. Write today for free sample plus new folder titled, "Basically Better".

INDUSTRY SUPPLIERS AND THEIR BOOTH NUMBERS

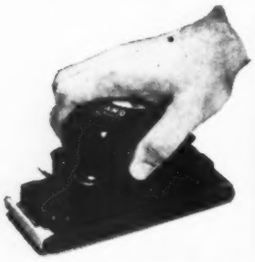
Aetna Plywood & Veneer Co. . . .52
American Leather Mfg. Co. 11
American Tack Co. 191N
American Parboard Corp. 67
Apex Machines, Div. of Apex Sewing Machine Co., Inc. . .161N & 163N
Armour & Co., Curled Hair Div. 96
Armstrong Machine Wks. 74
Aronauer, Joseph, Inc. 166N
Ascot Products Co., Inc. 4
Auto-Nailer Co. 167N, 168N & 169N
American Rubber Prod. Corp. 191N
Barnes, Victor S. & Co. 186N
Bechik Products, Inc. 59
Birn, Serge A. Co., Inc. 129
Black & Decker Mfg. Co., The . . . . . .142 & 143
Blocksom & Co. 82
Bolta Products, Div. of General Tire & Rubber Co. 76
Burkart, F. Mfg. Co., Div. of Textron, Inc. 24
Burnett, Wm. & Co. 112
Burton-Dixie Corp. 127
Central States Paper & Bag Co. 190N
Cherrin Products Co. 153
Chicago Curled Hair Co. 120
Columbus Coated Fabrics Corp. . . . .44 & 61
Comfort Spring Corp. 164N
Cooper, H. P. & Company . . . .176N & 177N
Cross, W. W. & Co. 139
Dayton Rubber Co., The . . . . . .137 & 138
Decar Plastic Corp. . . . . .90 & 107

(Con't. on pg. 24)

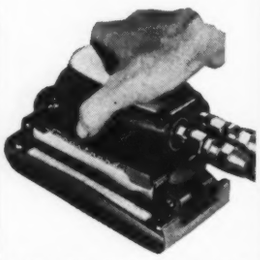
SUNDSTRAND

Choose from six sizes of "Job-proved" Air Sanders ...then watch output climb!

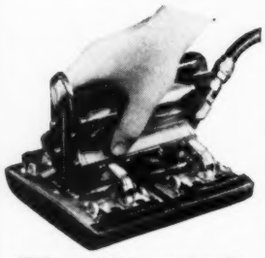
Six sizes of Sundstrand Air Sanders—weighing from 3 to 30 lb—all suitable for wet or dry sanding, give you unmatched freedom of choice. Let us show you advantages of each—without obligation, of course.



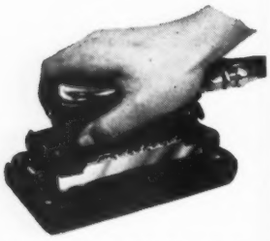
OS-800—lightest weight orbital air sander on the market, at only 3 lb, packs the power and speed needed for production jobs.



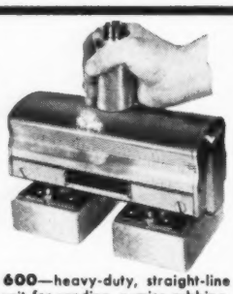
OS-700—single-pad orbital sander, weighing 5 lb, operates over 6000 cycles per minute.



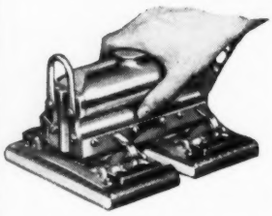
1000—straight-line sander with big abrasive area, operates at 2500 oscillations per minute, palm lever control, 7½ lb.



SP-101—straight-line, single-pad sander, 3000 oscillations per minute, 5 lb.



600—heavy-duty, straight-line unit for sanding, pumice rubbing, or polishing, 1100 oscillations per minute.



4000—straight-line, two-pad sander with longer, slower stroke, 2100 oscillations per minute, 9 lb.

SUNDSTRAND MAGNETIC-PNEUMATIC PRODUCTS
Division of Sundstrand Machine Tool Co. • 1020 Ninth Street, Rockford, Illinois

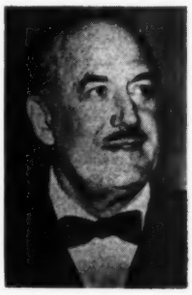
SUNDSTRAND

A name to remember in **AIR SANDERS**

FEATURED SPEAKERS

(Con't. from pg. 20)

SMITH



BENNETT

Fred Smith, who will address Tuesday luncheon meeting, started his business career as a day laborer at 7½c per hour. He now heads his own business brokerage and management consultant firm specializing in organization development and motivation. During the past ten years he has traveled more than 50,000 miles per year for speaking engagements in 40 States, Canada and Hawaii. A deep believer in the well-rounded life, even for a busy executive, he will talk on the subject, "Quarterbacking the Management Team."

•

Millard Bennett, editor of Sales Science, will address the 29th annual convention of the National Association of Furniture Manufacturers on the subject "Your Three Golden Keys," at the annual banquet, Tuesday. He is an internationally known lecturer whose clinics and forums, sponsored by Sales Executives Clubs throughout the United States and Canada, have won wide acclaim. With over 40 years experience as a salesman, sales manager, and as a vice president and general sales manager of three large national corporations he is able to draw on a broad knowledge of human behavior in passing on successful selling techniques to others.

FURNITURE NEWS — First in Coverage — First in Readership and Results!

for MASS PRODUCTION or MULTIPLE CHANGEOVERS

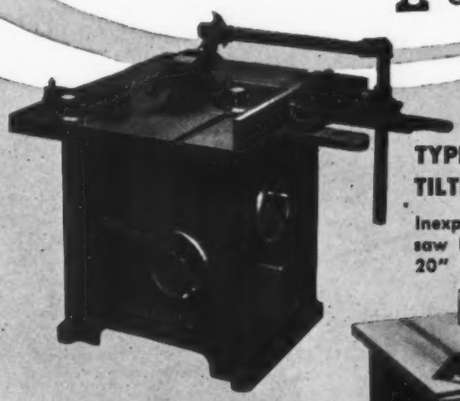
Your Best Buy in Mitre Saws is Tannewitz

Whatever the nature of your production may be, if it requires a mitre saw bench, Tannewitz can supply the one that best suits your requirements — accurate to the nth degree, convenient to operate and built like all Tannewitz machines to give a lifetime of fine service with little or no upkeep — product of *Sawing Machinery Specialists.* Write for bulletin covering the type you are interested in or consult us on any sawing problem.

The TANNEWITZ WORKS
GRAND RAPIDS, MICHIGAN
☎ GL 6-1729

TYPE JDR WITH TILTING AND REVOLVING DOUBLE ARBOR

Carries one rip and one cut-off saw or other cutting heads. Instantly interchangeable.



TYPE U, TILTING ARBOR

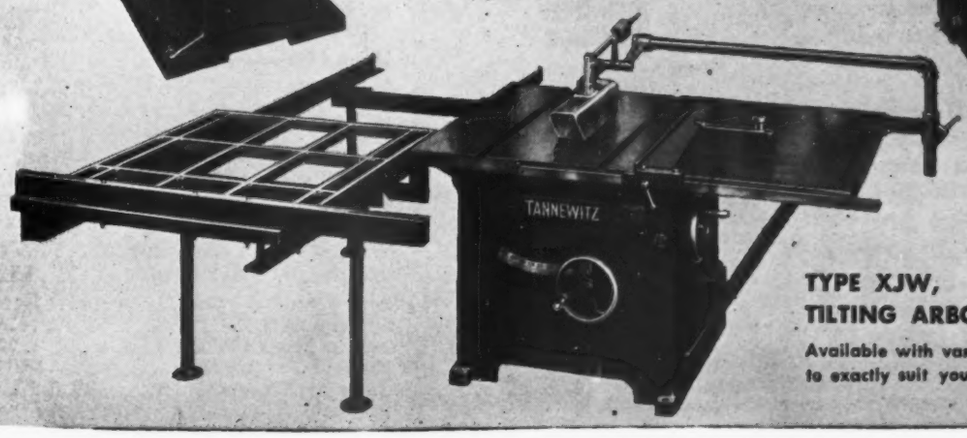
Inexpensive, quality-built saw bench will take 20" saw.

TYPE JSW-250, TILTING ARBOR

Wide right table, left table sliding. Available in several variations of tables.

TYPE SJ PORTABLE

Tilting arbor, takes 12" saw. Use it where needed.



TYPE XJW, TILTING ARBOR

Available with variation of 5 tables to exactly suit your production needs.

SUPPLIERS AND BOOTH NUMBERS

(Con't. from pg. 22)

Dryden Rubber Div., Sheller Mfg. Corp. 179N
Du Pont, E.I., De Nemours & Co., The ....71 & 72
Eagle Ottawa Leather Co. 10
Elastomer Chemical Corp. 23
Ellenboro Mills 75
Farley & Loetscher 121
Fastener Corp. 102
Federal Industries, Div. of Textron, Inc. 151
Fiberesin Plastics Co. 87
Firestone Industrial Prod. Co., Div. Firestone Tire & Rubber Co. .... 103, 104 & 105
Flex-O-Lators, Inc. ....5 & 6
Foster Bros. Mfg. Co. ....93 & 94
Franklin Glue Co., The 126
Fun-Ilure Co. 161
Gamble Brothers 116
General Steel Products Co. 41
General Tire & Rubber Co. 136
Gerdau, Otto, Co. 144
Goodrich, B. F. Sponge Products Div. of B. F. Goodrich Co. 128
Goodyear Tire & Rubber Co. 22
Hadley Brothers Uhl Co. 43
Handy Button Machine Co. 38
D. S. Haigh & Son (representing Anderson Machine & Tool Wks.) 54
Hardwood Dimension Mfrs. Association 49
Hewitt-Robins, Inc. 181N
Hickory Springs. Mfg. Co., Inc. ..21
Hines, Edward, Lumber Co., Special Products Div. 175N
Hoe, R. & Co., Inc. 122
Illinois Fibre Specialty Co., Inc. ....46 & 47
Illinois Tool Works, Power Tool Division 34
J. &. M. Textile Co., Inc. 191N
Janesville Cotton Mills ....132 & 133
Jiffy Manufacturing Co. 114 & 131
Kay Manufacturing Co. 187N, 188N & 189N
Kohler-Joa Corp. (Jenkin Woodworking Machinery Div.) 73
Marsh Wall Products, Inc. 146
Masland Duraleather Co., The ....108 & 109
Masonite Corporation ....147 & 148
Massasoit Trading Co. 40
McPhee-Thoits Mfg. Co. 195N
Mitchell, Wm. J. & Son 192N
Montabert, F. G. Co., Inc. 149
Morgan Fabrics Corp. 75
Morgan Mfg. Co., Inc. 68
Nachman Corporation ....88 & 89
National Adhesives Div. of National Starch Prods., Inc. ....14 & 15
National Casein Co. 182N
National Cotton Batting Institute ....171N, 172N & 173N
National Plastic Products Co. 3
National Rose Co., The Cotton Batting Division ....1 & 2
National Springs Corp. 178N
Nelsonite Chemical Prods., Inc. 37
New & Frank Co. 36
Nopco Chemical Co. 101
North American Prods. Corp. 92
No-Sag Spring Company ....184N, 185N, 198N & 199N
O'Neil Duro Company 51
Panelyte Div. of St. Regis Paper Co. 39
Paslode Company ....78 & 79
Pilliod Lumber Prods. Co., The 7
Plastiglide Mfg. Corp. 48
Plastic Mold & Engineering Co., Stylar Div. 160
Pioneer Plastics Corp. ....62 & 63
Power-Line Sales, Inc. ....80 & 81
Prolon Plastics 194N
Pyramid Mouldings, Inc. 134
Reiss Associates, Inc. ....70 & 83
Reiss Mfg. Corp. 113
Roddis Plywood Corp. 8
Sackner Products, Inc. 119
Senco Products, Inc. ....110 & 111
Seng Co., The ....117 & 118
Southern Screw Co. 66
Snell-Jones Tacks, Inc. 191N
Spotnails, Inc. ....55 & 56
Standard Mills, Inc. 196N
Steel Slides, Inc. 12
Swingline Industrial Corp. ....140 & 141
Textileather Div. of General Tire & Rubber Co. ....154 & 155
Thilmany Pulp & Paper Co. 95
Trend Industries 13
Turner Brass Works 193N
Turner & Seymour Mfg. Co., The 150
Twitchel, E. W., Inc. 97
United-Carr Fastener Corp. 9
United Shoe Machinery Corp. ....123, 124 & 125
United States Plywood Corp. ....85 & 86
United States Rubber Co., Coated Fabrics Dept. ....16, 17 & 18
United States Rubber Co., Mechanical Goods Div. 145
Victor Wood Products Co. 77
Watertown Table Slide Corp. 180N
Weavers Sales Company 75
Waldoroth Label Corp. 152
F. P. Woll & Co. 191N
Wilkenson Mfg. Co. 35
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- Mortisers (Chain & Hollow Chisel)
- Universal Woodworkers

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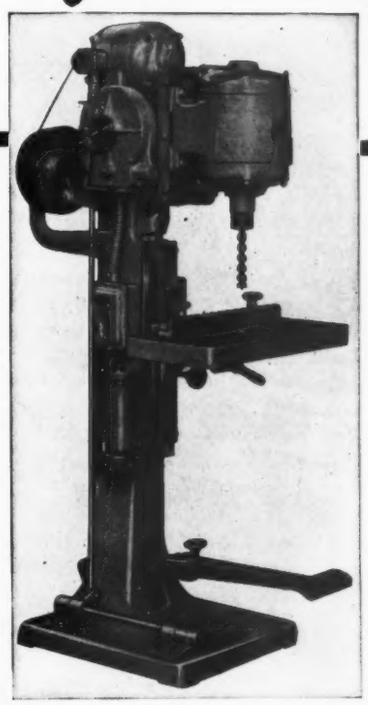
ROOT SINGLE SPINDLE BORERS

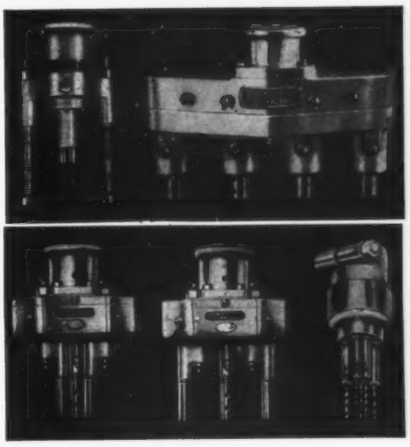
give you **PRODUCTION VERSATILITY**



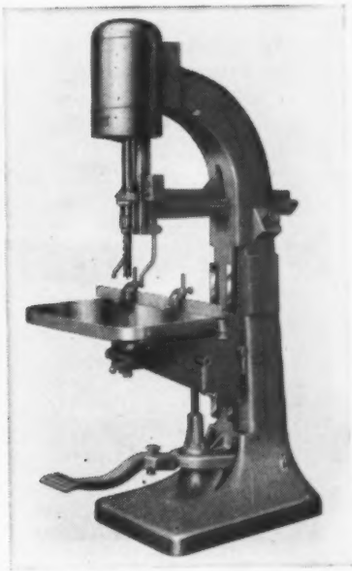
STYLE GM with power or foot feed— has 2 or 4 feed rates, continuous or intermittent— 2-speed, direct electric drive spindle.

NO OTHER TYPE BORERS DO SO MANY DIFFERENT JOBS

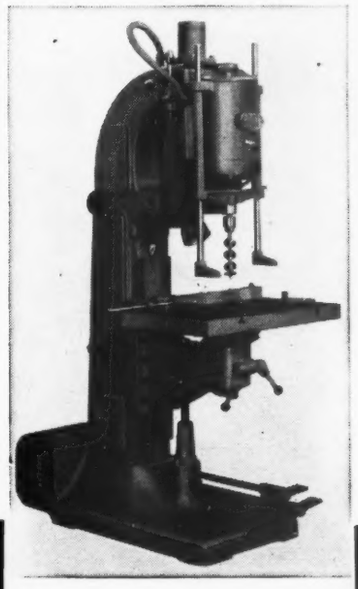
Throughout the entire woodworking industry, in maintenance shops of other industries, in schools, in plants large and small, you'll find these basic machines doing an endless number of different type boring jobs. It's their great versatility, their simplicity of adjustment to work requirements, their ease of operation and low-cost productivity that account for the wide popularity of these famous Root single spindle borers. Write today for full information.



A wide range of quickly detachable multiple boring heads available for Style GM and G-300 borers.



STYLE G-250 foot feed boring and mortising machine—has ample throat room, tilting table, 2 speed 3 h. p. motor, adjustable spindle stroke and table height, and many other features that make it ideal for miscellaneous boring.



STYLE G-300 the heaviest duty power feed borer made today—ideal for heavy to medium work—provides a 3/4 ton feed pressure—has many unique feed control features that assure ease of operation and maximum production.

WOODWORKING MACHINERY MANUFACTURERS' ASSOCIATION

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PRODUCTION PROBLEMS AND SOLUTIONS

Question — Some of our bed-ends have been working loose after being in service a short time. They don't come apart but just seem to lose their rigidity. What can we do to stop this?

Answer — Your trouble indicates a major construction fault which should be investigated and corrected. This could be in machining to form inaccurate or mismated joint members, over-large dowel holes, undersize dowels, contacting members out of square, etc. As a temporary remedy, a short angle iron, preferably of fairly heavy gauge, can be fastened to rail and post of both head and foot ends to provide added rigidity without interfering with the action of the side rails.

Question — A disagreement has arisen between my glue room foreman and myself regarding waterproof and water-resistant glues. Can you tell which commercial glues have these properties and their basic differences?

Answer — Melamine, phenolic and resorcinol resin adhesives are generally classified as waterproof adhesives; casein and urea-formaldehyde fortified glues as water-resistant. Waterproof adhesives are required to be boil-proof while water-resistant glues must withstand 10 cycles of soaking and drying or a 48-hour soak test at room temperature.

Question — I can remember my grandfather telling how he used to test a jointed edge for smoothness of cut with a lumber crayon but don't remember how he did it. Can you tell me how this is done?

Answer — This method involves removing the paper wrapper from the crayon and holding the crayon into firm horizontal contact with the face of the jointed edge as it is drawn over the joint. Since none of the low spots will be marked with the crayon they are quickly visible to show the typography of the joint surface.

Question — We want to cut down the size of our spray booths but are not sure what minimum clearance should be provided for the spray operator's working area. Can you tell us what this should be?

Answer —A qualified finishing engineer advises the following: if the operator has to move about the work to spray all its surfaces, the spray booth should provide a minimum clearance of 3 feet on all sides; if the work can be revolved on a turntable to spray all surfaces, a minimum 1-foot clearance is usually sufficient.

Question — We have heard of a molded rubber webbing being used by West Coast unholstery plants to replace metal springs. We assume that this webbing is similar to the Pirreli and Danish rubber webbing but understand that it is available with clips attached. What can you tell us about this product?

Answer — This rubber webbing is said to be made in sheets with clips molded on and is cut into strips about 1¾ inches wide and in lengths of 18, 19 and 20 inches. About 6 strips are used for each chair, wth the clips being clipped into grooves on the top of the side frames. The strips are about ¼ inch thick and are said to have a stretch of about 7%. The life of the rubber webbing is estimated to be from 15 to 20 years.
(Rubber webbing made at Los Angeles, Calif. plant of Firestone Tire & Rubber Co. – future production and distribution predicted from Fall River, Mass. plant)

Question — We are having trouble with resin glue stains which are hard to remove before finishing. Can you suggest some simple method of removing these stains?

(Con't. on pg. 28)

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A SIZE FOR EVERY NEED

Heat is applied to the sides of the pot — not the bottom — no burning —no water in base. Thermostat regulated. They provide the most efficient and satisfactory heat for glue, resin, wax, enamels, tar etc. Made by the pioneer in the field. Ordered and used by various U. S. Government departments, including the Navy. For more information write

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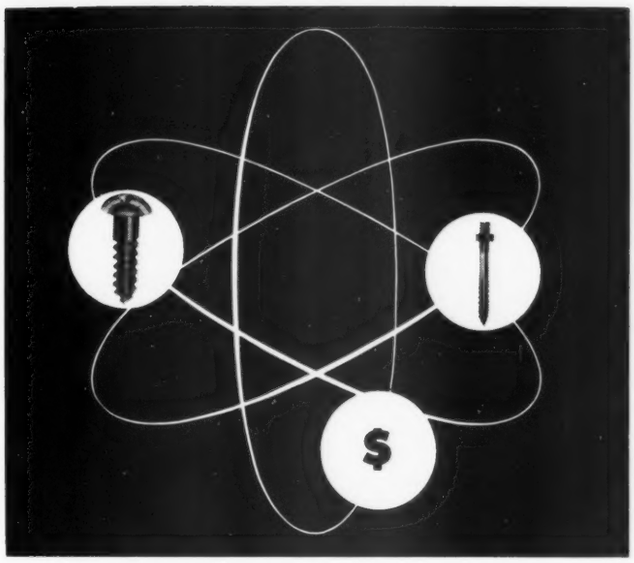

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WRITE FOR COMPLETE INFORMATION

WINZELER STAMPING COMPANY
30 Wabash Ave. Montpelier, Ohio

(Con't. from pg. 26)

Answer — Many furniture plants having a similar problem have given up the expensive removal of these resin glue stains. Instead they shade in these spots with a base aniline color before staining, sanding the glue-stained area lightly before shading, to provide better color adhesion.

Question — We are in the process of building two new dry kiln buildings. Our contractor objects to our kiln equipment suppliers's recommendation that sand should be replaced by vermiculite in the concrete mix to better insulate the kiln roof slabs. What should we do?

Answer — It would seem to be good judgment to follow the kiln equipment supplier's recommendation to use vermiculite. It will not only provide better insulation but the concrete will be lighter. A slab prepared with vermiculite in a similar application weighed only 30 lbs. per cubic foot compared to 150 lbs. per cubic foot for ordinary sand-mixed concrete.

Question — My finishing foreman is trying to get me interested in steam spraying as a means of getting better coverage with the same or less amount of material. We use quite a bit of enamel of the synthetic type and force-dry all finishes. Can you give me a brief description of the operations and advantages, if any?

Answer — Steam spraying requires the use of a special spray gun equipped with an insulated handle. In most applications superheated steam is produced from normal vapor-type steam from the conventional steam supply system; is changed to superheated steam through a super-heater; then is delivered to the spray gun through the insulated handle where it picks up, atomizes and sprays the finishing material. In an operation similar to yours, normal steam is produced at 212°F. temperature and raised to a temperature of 400-450° F. in the super-heater to produce a gaseous, dry superheated steam. This steam is unlike wet steam, in that it does not mix with or dilute the finishing material, and little overspray is reported with steam spraying. Little or no moisture is deposited on the finish film. The spray gun is bled constantly to remove any condensation that might cause moisture.

Question — I have suggested that instead of gluing up a number of small panels, we glue-up larger panels of multiple size to the full capacity of the press to reduce handling, and then cut these panels down to the smaller sizes. Our machine-room foreman says this has been tried and didn't work out. Can you give me any valid objections to this procedure?

Answer — The main disadvantage that your gluing up of multiple sizes in a larger panel apparent is the possibility of cutting into glue lines when the larger glued-up panel is reduced to smaller net panel sizes.

Question — We are using a special sealer as a base for a urea-alkyd synthetic heat-curing varnish. It was too difficult to sand when we first started using it but after the formulation was changed, sanding was much easier. We are now having troubles with poor adhesion of top coats with the sealer. What could be causing this?

Answer — Your supplier should be the one to correct this condition and will probably do so when the trouble is reported. It would appear that the zinc stearate component of the sealer formulation was increased to make sanding easier to a point where too much is being used. An excess of zinc stearate or any of the sanding soaps affects the bond between the sealer and topcoat varnish. In this case the zinc stearate has probably reacted to neutralize the acid catalyst used to convert the urea resin.

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Tilting Arbor Type

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• FOR SPEED WITH PRECISION

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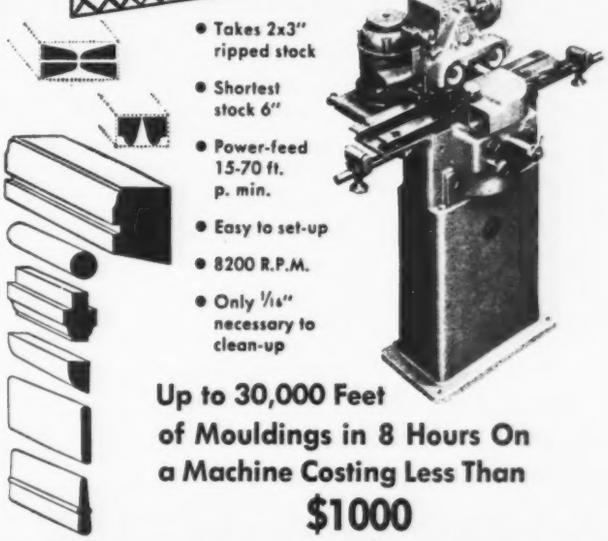

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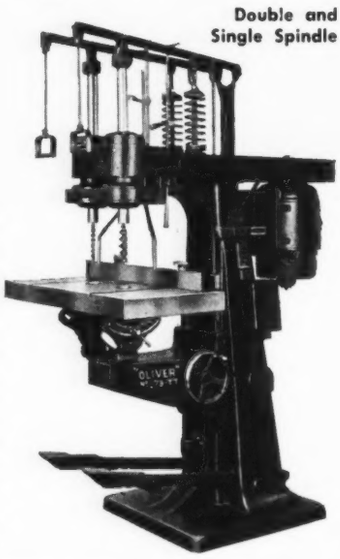

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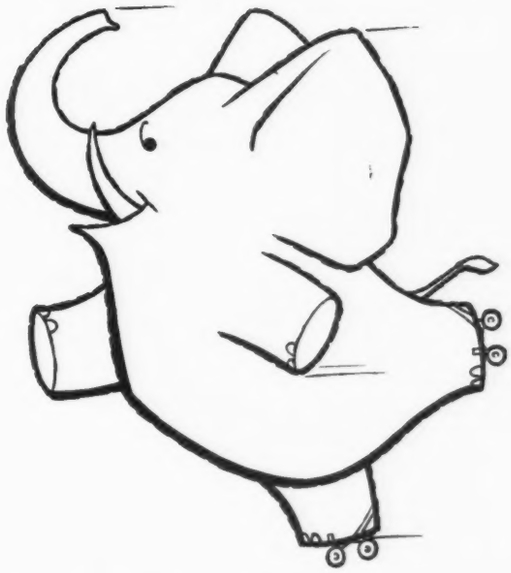

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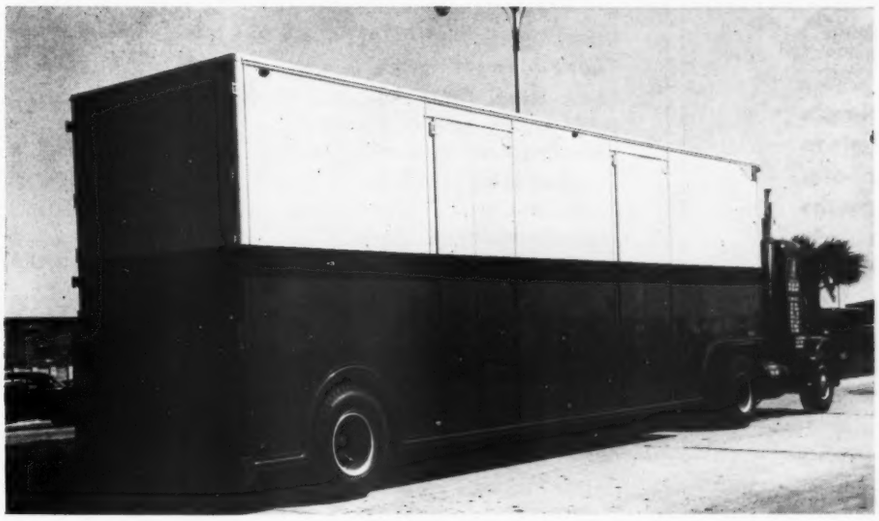

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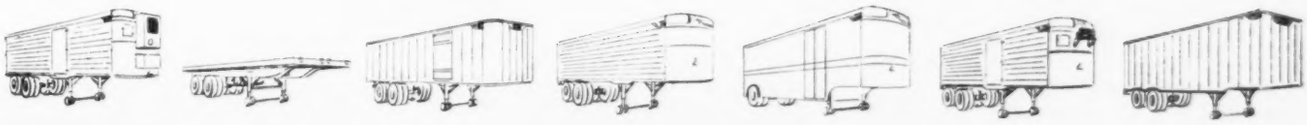

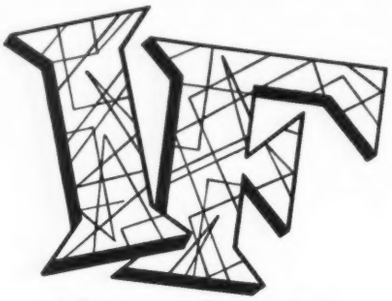

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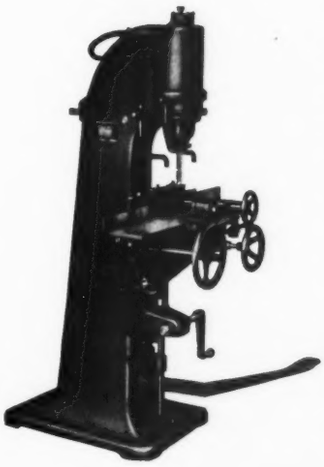

Let the Oliver No. 91-D Mortiser cut production costs in your plant. Takes chisels 1/4" to 3/4" square-stroke 2 1/2" to 4" long. With a 5 h-p. motor it handles chisels 1 1/2" square. Non-tilting compound table 6" x 36". Work is kept clean by a self-contained blower fan. Has rigid one-piece column for accurate operation without vibration. Write for Bulletin 91-D.

Oliver makes a lighter Mortiser of large capacity. The Power-Feed Mortiser is used by leading woodworkers

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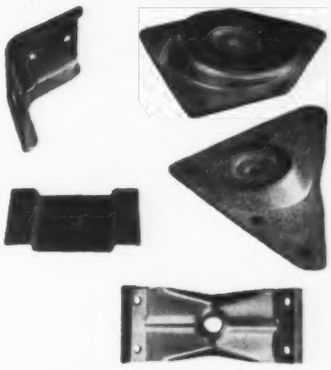

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EDITORIAL

SNOW'S 9-POINT PROGRAM

"**PROGRESS** is our most important product," General Electric Co. says in its TV commercials. Progress in the furniture industry is everybody's business. It's important here, too.

The road to progress doesn't lie in complaining about current conditions. It lies in doing something to improve them. Far more can be accomplished by spending at least as much effort in trying to develop a coordinated industry program, one that will enlist the support of top leaders from every branch of the industry. Other industries have been able to develop successful industrywide campaigns. There's no reason to think we can't do the same.

Previously proposed programs have been aimed at no more than half of the total problem. They have been too small in scope to enlist the type of leadership we need now. Nowhere is there a superabundance of such leadership. If it is dispersed, it can accomplish only minor things. A big industry like ours needs to do big things.

Refreshing, then, is a new nine-point program that would take both retailers and manufacturers a long way down the road to increased profits and success. The points were recently made by John M. Snow, executive vice president of the National Association of Furniture Manufacturers. A brief summary follows:

Nationwide Consumer Study — Make a study of consumer needs and attitudes on an industry-wide basis for the purpose of determining the scope of furniture's problems. Once established we can do a more effective job in advertising, publicity and public relations. Understanding the consumer is prerequisite to preconditioning her for furniture sales.

Study Manufacturers Problems — An intensive nationwide study of manufacturers' problems from a marketing standpoint would fill a long-felt need. A national series of clinics, forums and conferences could strengthen the industry's selling program for both manufacturers and retailers.

Analyze Wholesale Salesmen's Problems — Learn the strengths and weaknesses of wholesale furniture salesmen for the purpose of developing regional training programs that would give selling representatives the benefit of professional help and experience. It should result in a more effective and realistic selling job.

Survey Retail Problems — Analysis of retail problems could aid in developing better channels of communication within the industry and uncover need for new types of merchandise, new price lines, new merchandising programs and new ways to convince the customers she should buy *now*.

Stage Annual Style Shows — Give the homemaker an opportunity to see all the latest designs in room settings with ideas for immediate and practical use in her home.

Educational Program — A national program of clinics, forums and schools for homemakers supplemented by a wide variety of printed material to help both the bride and the housewife.

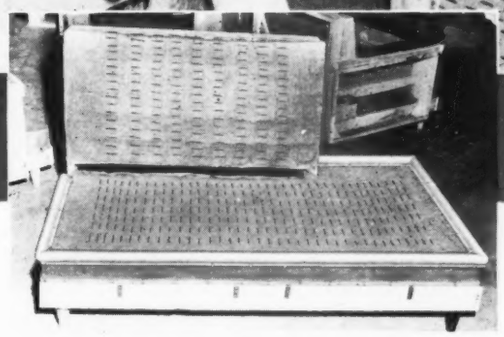
Store Lighting, Layout, Color — Learn more of the psychological reaction of consumers to use of color, lighting and layout in stores.

Advertising — Learn how to use this effective selling tool through studies collaborating the work of specialists in advertising and in furniture.

Industry Marketing Program — Work on developing a complete industry marketing program. Find answers to such questions as where furniture is sold? in what types, styles and price lines? Try to develop an industry-wide "trade-in" program that could provide an important key to increased sales.

Snow emphasizes these as but initial steps in developing a complete, coordinated industry-wide program. However, they are big and broad enough to enlarge furniture's present horizons. Big enough, too, to channel some of the wasted energy spent in bemoaning unsatisfactory conditions in any segment.

Oscar Lundy



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You get "Sheer-Line" tailoring and assembly line production, too, because Ring-Fast and Zip-Fast eliminate hand forming and hand sewing. Ring-Fast hog rings in place and Zip-Fast zips onto edge wires automatically.

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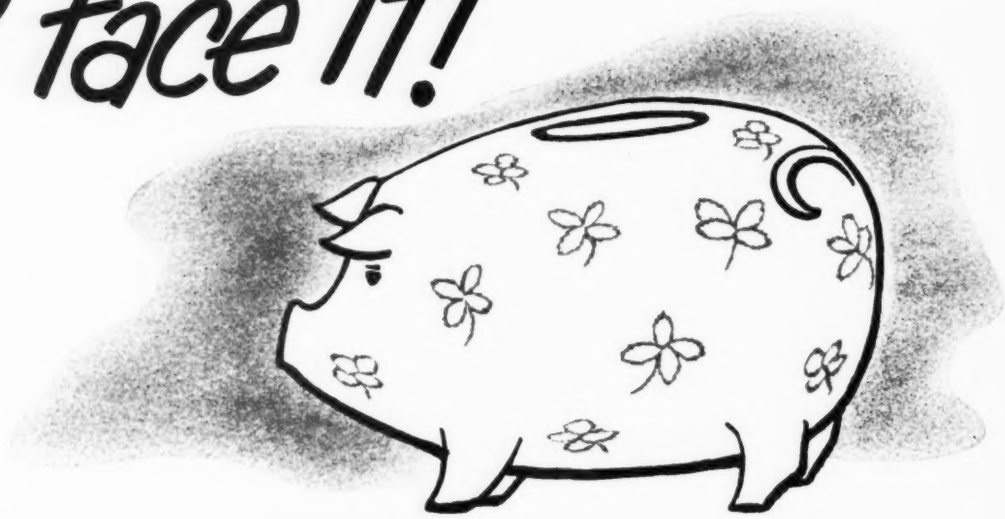

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